

With Compliments of

Bertrand T. Wheeler,

Superintendent of Streets.



ANNUAL REPORT

OF THE

LIBRARY

STREET DEPARTMENT

OF THE

CITY OF BOSTON PROPERTY OF

1894.



BOSTON:
ROCKWELL AND CHURCHILL, CITY PRINTERS.
1895.

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REPORT OF SUPERINTENDENT OF STREETS

AND "

EXECUTIVE ENGINEER.

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Hon. Edwin U. Curtis,

Mayor of the City of Boston:

Sir: In compliance with the Revised Ordinances, the annual report of the operations and expenses of the Street Department for the year 1894 is herewith respectfully submitted.

ORGANIZATION.

The work of the department during the past year has been carried on under the same organization that was effected when the consolidated department was created in 1891, the several divisions of the department being as follows:

The Central Office.
Bridge Division.
Paving Division.
Sewer Division.
Sanitary Division.
Street-Cleaning Division.
Boston and Cambridge Bridges.

Each of the above divisions, with the exception of the Central Office Division and the Boston and Cambridge Bridges, is in charge of a deputy superintendent.

The Boston and Cambridge Bridges are managed by two commissioners, the Superintendent of Streets being the commissioner for the city of Boston, the other commissioner being appointed by the Mayor of the city of Cambridge.

The work of street-watering, which devolves on the Street Department, is carried on under the supervision of the Paving Division, with a foreman of street-watering in charge.

This service could be more efficiently rendered if it were undertaken as a separate division with a responsible deputy superintendent in charge.

The principal features of the work of the year may be summarized as follows:

Paving with new blocks and regulating about 30 streets in various districts, improving about 50,000 square yards of paved roadway surface, and repaving numerous other streets.

Construction of Telford-macadam roadways on Commonwealth avenue, from Arlington street to Massachusetts avenue, and continuation of general construction on the same avenue, from the Crossroads to Brighton, amounting in all to about \$375,000 worth of work.

Setting 52,706 lin. feet of new edgestone, and laying 19,615 square yards of new brick sidewalks.

Increasing our asphalt pavements by about 10,500 square yards.

Rebuilding Chelsea-street bridge, including a new steel swing draw, and repairing Charles-river bridge.

Rebuilding bridge and draw over Fort Point channel in connection with the separation of grade of Dover street and the NY., N.H., & H. R.R.

Building 23 miles of sewers and building 226 catch-basins, repairing 445, and cleaning 6,913 others, removing therefrom about 20,000 cubic yards of filthy material.

Cleaning about 10,500 miles of streets, removing 95,478 loads of dirt.

Sprinkling about 330 miles of streets for nearly eight months.

Collecting and removing 326,798 loads of house dirt and ashes.

Collecting and removing 50,637 loads of house offal.

Building, under the Board of Survey Act, twelve macadam streets, at an expenditure of \$106,820, nine of which have been practically completed.

A perusal of the financial tables that follow shows that the department has expended for maintenance the sum of \$2,038,855.91, and that the total expenditures of the consolidated department, including special appropriations, have been \$3,333,730.70. Of this amount, \$490,800.14 was spent on laying out and constructing new streets under chapter 323 of the Acts of 1891, as amended by chapter 418 of the Acts of 1892, known as the Board of Survey Act. Under this act, seven orders of laying out were passed near the close of the year to construct and complete which will

involve an expenditure of nearly \$2,000,000, while the land damages are estimated at \$1,284,908.50 in addition.

They are:

Blue Hill avenue, from Washington street to Mattapan.

Huntington avenue, from Copley square to Brookline line.

Harvard avenue, from Commonwealth avenue to the Brookline line.

Turner street, from Haviland street to Astor street.

Sherborn street, from Commonwealth avenue to Charles river.

Commonwealth-avenue extension, from Chestnut Hill avenue to the Newton line.

Columbus avenue, from Northampton street to Walnut avenue at the Park.

As the total amount of money available under this act for the coming year is only \$1,921,357.41, of which \$70,000 is required for the Board of Survey, \$500,000 for sewers and streets begun, and \$1,284,908.50 for land damages, it is evident that only \$66,448.91 remains available for new construction.

The laying out of Columbus avenue, together with the raising of the grade of the Providence Division of the N.Y., N.H., & H. R.R., now in progress, again force upon the city the question of the final disposition to be made of Stony brook.

STONY BROOK.

Between Centre street and Ritchie street, the open channel of Stony brook, 22 feet wide and 10 to 14 feet deep and 600 feet long, is included within the lines of Columbus avenue, crossing the location of the avenue twice. The least that can be done here is to arch over this channel before the avenue can be constructed, a work which will cause the expenditure of a large sum of money, and which will have to be destroyed within a few years to make way for the low-grade channel recommended by the Stony Brook Commission of 1886.

A wiser course would be to build here a section of the Commissioners' channel. At a point 500 feet south of the point where the brook channel leaves the avenue, near Ritchie street, the N.Y., N.H., & H. R.R., is now build-

ing a section of the Commissioners' channel, extending to a point 500 feet south of Boylston street, a distance of 2,300 feet, the engineers of the railroad, after consultation with the City Engineer and the Superintendent of Streets, having decided that this was the wisest course, when it had become evident that the raising of the grade of the Providence Division necessitated the filling in of the old channel. If the section of the Commissioners' channel is built as recommended between Centre and Ritchie streets, we shall then have two sections of the low-grade channel, one 600 feet long, the other 2,300 feet long, 500 feet apart, each drained by sections of the present channel, which is about 14 feet higher. The low-grade channels will therefore be filled at all times nearly to the crown of the arch with water, forming settling basins for the sand and mud of the brook, which will speedily fill them up.

The Commissioners' channel is now complete from Charles river, or more exactly from the ponds in the Back Bay Fens, to the Inlet Chamber near Pynchon street. This will have to be extended in the near future to join the section of channel between Centre and Ritchie streets, and this in its turn to join the section now being built by the N.Y., N.H., &

H. R.R.

The Commissioners in 1886 recommended that in extending the channel above the Inlet Chamber, the original course of the brook be followed; that is, alongside the railroad as far as Old Heath street. But the experience of the city in 1880 may prove a valuable guide upon this point. The Superintendent of Sewers at that time, under whose direction the improvement of 1880–84 was begun, found that the damages demanded for land and buildings were so excessive that he was forced to build the channel in Pynchon street.

The experience would doubtless be repeated now. But, in addition to this, unless the channel is built immediately the N.Y., N.H., & H. R.R. will have erected here a retaining-wall about 19 feet high, carrying their four-track road; this will add so enormously to the difficulty and cost of excavating a trench 26 feet deep and 25 feet wide at its foot, that there cannot be any reasonable doubt that the city will be compelled to build this channel in Columbus avenue.

These considerations seem to make it evident that the extension of the low-grade channel from the Inlet Chamber up to join the section now being built by the railroad should precede the construction of Columbus avenue; otherwise shortly after surfacing this fine avenue the city will find itself forced to destroy it by excavating in it the enormous

trench required for this channel, — a trench 26 to 28 feet

wide and 28 to 32 feet deep.

But any extension of the low-grade channel of Stony brook immediately calls up for solution two other knotty problems, which are inextricably bound up in it: one is the question of the rights of the Boston Belting Company to the water of the brook; the other is the question of providing a low-grade sewer for those districts in West Roxbury which are too low to be sewered by extensions of the existing sewer system there.

The Boston Belting Company use the water of the brook in their processes of rubber manufacture, and claim the right to it in virtue of an old mill-privilege. To extend the low-grade channel beyond the Inlet Chamber will cut off the water entirely from them unless some special device is adopted to cause the water to continue to flow down the old channel to their factory. Without attempting in this connection to discuss the relative rights of the Boston Belting Company and the city of Boston as to Stony brook, a discussion which would involve complicated legal points, it may be stated that there are three courses open to the city, if it be considered imperative or expedient to continue to supply the Belting Company with the water of the brook, viz.:

A. To erect a movable dam or large gate at the Inlet Chamber, damming up the water by means of it high enough to cause it to flow down the old channel in fair weather, and removing the dam during floods to allow an uninterrupted flow through the low-grade channel. This would

require a damming up of 131 feet.

B. To set up a pumping plant at the Inlet Chamber, and pump sufficient water up into the old channel to supply the

factory.

C. To transfer the Inlet Chamber or a similar structure to the farthest point up stream to which the low-grade channel extends uninterruptedly, utilizing the existing channel to carry the Belting Company's supply between the Inlet Chamber and Centre street, and building an auxiliary channel from this point on, upon the haunch of the arch of Commissioners' channel.

If this latter scheme is adopted, arrangements should be made with the N.Y., N.H., & H. R.R. to build this auxiliary channel in connection with the section of the channel which they now have under construction, the city to pay the extra cost to the contractors.

There is time enough to make such arrangements as no more masonry will be built until spring.

The second problem mentioned above as connected with

the extension of the low-grade channel, viz., the building of a low-grade sewer for the Stony-brook valley, is simpler. There are about 500 acres of land in West Roxbury adjacent to the channel of the brook which is too low to be sewered by the existing system; some of it is being developed by new streets, and is being built upon. A sewer low enough to serve this territory can never be built half so cheaply as it can in connection with the building of this low-grade channel for the brook.

From the head of the Stony-brook branch of the intercepting system, at the corner of Elmwood and Linden Park streets to the Roxbury crossing, there is an unused 7-foot brick channel. From this point up to the Inlet Chamber the channel is only partially filled by the stream which is allowed to flow to the Belting Company. A sewer could be built cheaply here. From the Inlet Chamber up, a sewer could be built in the open channel as well as it could be below the Inlet Chamber, and one of the two 7×10 foot brick channels in Pynchon street would be available for it, even if the other were utilized for the auxiliary channel before mentioned. Above Centre street this sewer would have to be carried upon the haunch of the low-grade channel, and the same arrangement made with the railroad company in regard to building it as previously discussed in regard to an auxiliary channel.

These problems are so involved, each with the others, that this department and the city government should come to a decision in regard to them without delay, as the opportunity to build all that will be required in this narrow valley cheaply and without destroying previous costly work will never occur

again.

The interests involved are serious enough, and the economy which can be affected is great enough to warrant obtaining the necessary funds by means of a special long-time loan outside the debt limit, if no other means are available.

The improvement of 1880-84 stopped at the Florence-street bridge, about a quarter of a mile north-easterly from

Mount Hope station.

Private parties interested in Hyde Park lands have, during the past year, carried this improvement on up to the Hyde Park line, under an agreement with the city, they to do the work to the satisfaction of the City Engineer, and the city to pay them the sum of \$6,000; culverts at street-crossings have been rebuilt or underpinned where good enough, and the channel excavated to the theoretical grade

of the improvement of 1880-84, and to a width, substantially, of 10 feet.

Owing to the fact that this report covers a fiscal year, during which the department was in charge of another Superintendent, except for a small proportion of the time, it does not seem expedient or proper for me to enter into further discussion of the details of the work rendered possible and accomplished through his acknowledged ability and energy.

The report of the Executive Engineer, which follows, alludes in details to all the special features of the work of the year, and shows the force emp oyed and the work undertaken, together with a valuable table of prices that obtained on a contract basis. Special attention might be called to the subjects of "Surface Drainage," "Street Cleaning," and

"Smoke Nuisance."

In addition to this report, five appendices are herewith submitted, in which will be found the reports of the several Deputy Superintendents, showing the expenditures of each division in detail. They are as follows:

Appendix A — Bridge Division.

" B — Paving Division.

" C — Sanitary Division.

" D — Sewer Division.

" E — Street-Cleaning Division.

"F — Former Superintendents and Document Numbers.

Respectfully submitted,

B. T. Wheeler,
Superintendent of Streets.

Boston, February 1, 1895.

MR. BERTRAND T. WHEELER, Superintendent of Streets:

DEAR SIR: I herewith respectfully submit the fourth annual report of the operations and expenses of the Street Department since consolidation, the same being a full statement thereof for the year 1894:

CENTRAL OFFICE DIVISION.

EXPENSES OF THE CENTRAL OFFICE.

For the current expenses of the Central Office the City Council appropriated the sum of twenty thousand dollars (\$20,000), to which was transferred from the Paving Division the sum of one thousand dollars (\$1,000), making a total of twenty-one thousand dollars (\$21,000), which was expended as follows:

Salarie: Genera		се е	expendi	tures	•	•	\$17,236 3,647	
To	tal						\$20,884	29

leaving a balance of one hundred fifteen dollars and seventyone cents (\$115.71), which was transferred to the city treasury.

FINANCIAL STATEMENT OF THE STREET DEPARTMENT APPROPRIATION. From February 1, 1894, to January 31, 1895.

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	M	MAINTENANCE	•		
APPROPRIATION.	Appropriations and Transfers during 1894.	Revenue.	Total Credits.	Expenditures for the twelve months ending January 31, 1895.	Balances January 31, 1895.
Street Department: Bridge Division Bridge Division Boston and Cambridge Bridges Central Office Paving Division Santary Division Sever Division Street Cleaning Division	\$130,787 21 12,000 00 21,000 00 772,950 85 467,459 02 332,133 40 302,240 44 91,429 08	\$7,702.30 \$7,702.30 \$37.00	1 #130,787 21 212,000 00 8 21,000 00 4 760,653 15 6 467,459 02 7 302,477 44 8 91,429 08	\$130,137 21 1,396 85 20,884 29 715,608 62 447,459 02 304,133 40 301,477 44 (87,169 08	\$650 00 13 15 115 71 45,044 53 11,000 00 1,000 00 4,260 00
Totals	\$2,100,000 00	\$7,939 30	\$2,107,939 30	\$2,038,855 91	9 \$69,083 39
Appropriation 1894-5		Transferred from Paving Division	\$450,000 00 17,882 84 76 18 \$467,459 02 \$220,000 00 1,638 66 494 74	Appropriation 1894-5 Transferred to Street Cleaning Division. Transferred to Sewer Division. Transferred to Sanitary Division.	aing . *8,000 00 *8,000 00 *8,000 00 494 74 76 18 8,570 92 \$8,570 92
\$21,000 00	00 0		\$322,133 40	9 Transferred to city treasury	ry \$69,083 39
Appropriation for 1894-5 \$800,000 00 Transferred from special appropriations for "blocks" and repaying for corporations		7 Appropriation 1894-5	\$273,000 00 21,240 44 8,000 00 237 00		
### Transferred to Central Office. #1,000 00 Hardge Division, 5,787 21 Hardge Division, 5,787 21 Hardge Division, 1,638 66 Hardge Division, 17,382 84 Hardge Division			\$302,477 44		

Paving Division Specials.

Object of Appropriation.	Appropriations, Balances, and Transfers.	Expended from Feb. 1, 1894, to Jan. 31, 1895.	Balances on hand Jan. 31, 1895.
Arklow st	\$1,600 00		\$1,600 00
Baker st., Ward 23	1,350 40	\$1, 350 4 0	
Bellflower st	3,000 00	3,000 00	
Blakeville st	1,500 00	1,500 00	
Blue Hill ave., paving	25,000 00	25,000 00	
Bond st	1,091 18		1,091 18
Bumstead lane	7,327 00	7,327 00	
Bunker Hill st	3,200 00	372 15	2,827 85
Bushnell st	2,000 00	2,000 00	
Charter st	4,800 00	9 20	4,790 80
Commonwealth ave., construction	301,815 55	1 301,624 47	191 08
Congress and L sts	14,700 00	558 00	14,142 00
Cranston st	568 75	568 75	
Dartmouth st., Boylston st. to Commonwealth ave.	6,200 00	5,839 65	360 35
Day st., Ward 22, macadamizing	7,500 00	7,500 00	
Fay st	1,408 82	1,408 82	P
Henchman st	3,000 00		3,000 00
Lewis-st. extension	2,500 00	1,834 79	665 21
Mill st	2,000 00	2,000 00	
Millet st	595 88	595 88	
Montview st	1,273 05	1,273 05	
Mt. Vernon st., grade damages	1,325 00	1,325 00	
Newport st	1,904 12	1,904 12	
Oak st., Harrison ave. to Washington st	3,313 18	3,313 18	}
Park st., Charlestown	1,138 23	1,138 23	
Preston st	5,000 00	. 5,000 00	
Prince st., Hanover st. to N. Bennett ave	3,500 00		3,500 00
Ruth st	5,029 74	5,029 74	
Second st	8,000 00	7,065 69	934 31
Talbot ave	27,372 00	18,501 41	8,870 59
Thetford st	3,000 00	3,000 00	
Utica st., Harvard st. to Kneeland st	4,909 46	4,909 46	
Carried forward	\$456,922 56	\$414,949 19	\$41,973 37

¹ Draft of \$5,450.91 reserved.

Paving Division Specials. — Concluded.

Object of Appropriation.	Appropria- tions, Balances, an Transfers.	from Feb. 1, d 1894, to	Balances on haud Jan. 31, 1895.	
Brought forward	\$456,922 50	\$414,949 19	\$41,973 37	
Utica st., Kneeland st. to Beach st	794 28	794 28		
Van Rensselaer place	450 00	450 00		
Warren st., Soley st. to Winthrop st., asphalting	600 00		600 00	
Washington st., Ward 25	38,000 00	6,848 88	31,151 12	
Whiting st	2,135 06	2,135 00		
Totals	\$498,901 8	\$425,177 35	\$73,724 49	

Street Improvements.

Object of Appropriation.	Appropri-	Expended from Feb. 1,	Balances of
Change of Hillion Mighton.	Balances, and Transfers.	1894, to Jan. 31, 1895.	31, 1895.
Street Improvements, Aldermanic District No. 1.	\$12,200 00	\$12,200 00	
Street Improvements, Aldermanic District No. 2. Street Improvements, Aldermanic District No. 3	17,185 75 1,115 98	17,185 75 1,115 98	
Street Improvements, Aldermanic District No. 4	15,037 43	15,037 43	
Street Improvements, Aldermanic District No. 5.	537 82	537 82	
Street Improvements, Aldermanic District No. 6.	37,003 44	23,522 78	\$13,480 6
Street Improvements, Aldermanic District No. 7	3,346 29	3,346 29	
Street Improvements, Aldermanic District No. 8. Street Improvements, Aldermanic District No. 9.	10,169 29 32,513 88	10,169 29 32,513 88	
Street Improvements, Aldermanic District No. 11.	15,267 04	15,267 04	
Street Improvements, Aldermanic District No. 12.	1,890 69	1,890 69	
Street Improvements, Wards 1 and 2	12,470 26	10,498 69	1,971 8
Street Improvements, Ward 3	6,666 67	2,548 58	4,118
Street Improvements, Ward 4	6,666 67	6,109 06	6,666 6 1,451 3
Street Improvements, Ward 5	7,560 41	4,849 02	2,150
Street Improvements, Ward 7	18,668 54	18,668 54	2,100
Street Improvements, Ward 8	13,000 00	13,000 00	
Street Improvements, Wards 7 and 8	20,000 00	12,448 08	7,551
Street Improvements, Ward 9	5,000 00		5,000
Street Improvements, Ward 10	5,000 00	5,000 00	
Street Improvements, Wards 9 and 10 Street Improvements, Ward 12	20,000 00 11,882 88	20,000 00 124 26	11,758
Street Improvements, Ward 12	14,500 00	11,303 45	3,196
Breet Improvements, Ward 15	11,500 00	7,367 20	4,132
Street Improvements, Wards 17 and 18	30,000 00	12,341 94	17,658
Street Improvements, Wards 19 and 22	15,000 00	15.000 00	
Street Improvements, Ward 20	10,000 00	9,363 19	636 8
Street Improvements, Ward 21	11,765 00 30,000 00	11,765 00 25,000 23	4,999
Street Improvements, Wards 23 and 25 Street Improvements, Ward 24	28,000 00	28,000 00	*,500
Street Improvements, Ward 25	418 01	418 01	
Totals	\$431,366 05	\$346,592 20	\$84,773 8

Sewer Division Specials.

OBJECT OF APPROPRIATION.	Appropriations, Balances, and Transfers.	Expended from Feb. 1, 1894, to Jan. 31, 1895.	Balances on hand Jan. 31, 1895.
Boylston st., "Surface Drains"	\$1,600 00	\$1,600 00	
Sewers, Brighton	2,486 47	2,486 47	
Sewer outlet, East Boston	1,800 00	1,800 00	
Sewer between Roslindale and W. Roxbury	280 00	280 00	
Sewers, South Boston	2,348 05	1,081 80	\$1,266 25
Stony-brook damages	5,670 15	5,670 15	
Sewers, Ward 23, Washington st., etc	591 29	591 29	
Totals	\$14,775 96	\$13,509 71	\$1,266 25

Bridge Division Specials.

Object of Appropriation.	Appropriations, Balances, and Transfers.	Expended from Feb. 1, 1894, to Jan. 31, 1895.	Balances on hand Jan. 31, 1895.
Berwick-park foot-bridge	\$5,115 17	\$5,115 17	
Boylston-st. bridge	1,094 00	1,094 00	
Broadway bridge	499 37	499 37	
Bridge improvements, Wards 12 and 13.	501 77	501 77	
Chelsea-st. bridge, rebuilding	30,000 00	11,585 08	\$18,414 92
Gold-st. bridge	25,000 00	• * • • • • •	25,000 00
Totals	\$62,210 31	\$18,795 39	\$43,414 92

LAYING OUT AND CONSTRUCTION OF HIGHWAYS.

Expenditures.

Sewer construction		•			1 \$420,138	58
Street construction	•				² 70,661	56
Total .			•		\$490,800	14

¹ Draft of \$441.10 reserved.

² Draft of \$150 reserved.

Recapitulation of Expenditures for the Twelve Months ending January 31, 1895.

OBJECT OF APPROPRIATION.	Current Expenses for the twelve months ending Jan. 31, 1895.	Special Appropriations.	Totals.
Street Department:	,		
Central Office	\$20,884 29		\$20,884 29
Bridge Division	130,137 21	\$18,795 39	148,932 60
Boston and Cambridge Bridges	11,986 85		11,986 85
Paving Division	715,608 62	1 425,177 35	1,140,785 97
Sanitary Division	467,459 02		467,459 02
Sewer Division	304,133 40	13,509 71	317,643 11
Street-Cleaning Division	301,477 44		301,477 44
Street-Watering	87,169 08		87,169 08
Street Improvements		346,592 20	346,592 20
Laying Out and Construction of Highways		2 490,800 14	490,800 14
Totals	\$2,038,855 91	\$1,294,874 79	\$3,333,730 70

Street-building under Chap, 323 of the Acts of 1891, as amended by Chap. 418 of the Acts of 1892.

STREET.	Paving.	Sewer.	Totals.
Arundel st., Mountfort st. to Beacon st	\$3,048 26	\$564 24	\$3,612 50
¹ Batavia st., St. Stephen st. to Parker st	411 02		411 02
¹ Bay State road, Deerfield st. to Sherborn st	3,589 90	416 43	4,006 33
Deerfield st., Commonwealth ave. to Charles river.	2,658 19	130 28	2,788 47
Huntington ave., Copley sq. to Brookline line	10 25		10 25
Ivy st., St. Mary's st. to Mountfort st	8,302 22	3,144 12	11,446 34
¹ Miner st., Beacon st. to Brookline branch B.& A.R.R.,	255 19	53 65	308 84
Mountfort st., Ivy st. to Audubon road	4,367 24	1,520 75	5,887 99
Newbury st., Charlesgate West to Brookline ave	2 14,636 86	9,267 63	23,954 49
Norway st., Falmouth st. to Massachusetts ave	151 35	1,561 43	1,712 78
Parker st., Westland ave. to Huntington ave	21,805 37	18,516 1 8	40,321 55
Sherborn st., Commonwealth ave. to Charles river	10 75	195 28	206 03
St. Germain st., Massachusetts ave. to Turner st	1,747 53	789 25	2,536 78
Turner st., Haviland st. to Astor st	13 00		13 00
Totals	\$61,057 13	\$36,159 24	\$97,216 37

¹ Built mainly in 1893.

Draft of \$5,450.91 reserved. 2 Drafts of \$150 and \$441.10 reserved.

² Draft of \$150 reserved.

Street-building under Chap. 462 of the Acts of 1892 and Chap. 439 of the Acts of 1894.

Street.	Paving.	Sewer.	Totals.
Boylston st., Boylston road to Brookline ave	\$9,604 43		'\$9,604 43
Totals	\$9,604 43		\$9,604 43

INCOME.

Statement showing the amount of bills and cash deposited with City Collector for the year ending January 31, 1895, by the several divisions of the Street Department:

Central Office .					•)	\$20	00
Paving Division .		•		•		17,268	41
Sewer Division .		•			•	196,727	81
Sanitary Division		•		•		41,820	55
Street-Cleaning Di	visio	n		:		8,163	77
Bridge Division .				•		1,598	62
Street-Watering .						906	77
Boston and Cambri	idge	Bridg	ges			597	81
						\$267,103	74

Statement showing the amount paid into the city treasury during the same period on account of the several divisions of the Street Department:

Central Office					\$20	00
Paving Division				:	52,836	10
Sewer Division					106,317	20
Sanitary Division			•		44,870	94
Street-Cleaning 1	Divis	ion	• (2,146	05
Bridge Division					1,598	
Street-Watering		•		•	 295	25
Boston and Cam	bridg	ge Brie	lges	•	597	81
					\$208,681	97

List of Contracts from February 1, 1894, to January 31, 1895, made by the Street Department.

Paving Blocks.

CONTRACT.	Awarded to	Proposal rec'd.	Price per M.
Large paving-blocks, 300,000	Rockport Granite Co.,	March 15, 1894.	\$66 70

Spruce Lumber.

District.	Awarded to	Proposal received.	Price per M ft. B. M.	Price for Planing per M ft.
Charlestown	John W. Leatherbee, " " Pope Lumber Co }	April 23, 1894.	\$15 75 15 50 (15 38 14 95 (14 45	\$1 00 1 00 0 95 0 95 0 95

Beach Gravel.

District.	Awarded to	Proposal received.	Price per ton.
City	Hugh Farrell	March 19, 1894.	\$0 59 delivered on wharves.

Coal.

Contract.	Awarded to	Proposal received.	Price per ton, 2,240 lbs.
1,500 tons, Pumping Station, Dorchester			
1,500 tons, Pumping Station, Dorchester	H. G. Jordan & Co (Incorporated.)	Aug. 14, 1894.	3 17

Iron Castings.

CONTRACT.	Awarded to	Proposal received.	Price per 100 lbs.
Iron Castings	Mechanics' Iron Foundry Co	March 23, 1894.	\$1 43

Bridge-Strengthening, etc.

CONTRACT.	Awarded to	Proposal received.	Price,
Abutments, Cottage Farm Bridge over B. & A. R.R Leavitt, Dailey, & Crockett Feb. 8,1894	Leavitt, Dailey, & Crockett	Feb. 8,1894	\$40,150.50.
Iron railing, Boylston-street Bridge	Boston Bridge Works Aug. 27, 1894	Aug. 27, 1894	\$1,094.00.
Rebuilding Chelsea-street Bridge B. F. Nay & Co Aug. 15, 1894, .	B. F. Nay & Co	Aug. 15, 1894	\$15,964.00.
Furnishing iron draw, Chelsea-street Bridge Boston Bridge Works Sept. 4, 1894	Boston Bridge Works	Sept. 4, 1894	\$8,450.00.
Repairing and strengthening Charles-river Bridge Trumbull & Ryan	Trumbull & Ryan	Aug. 28, 1894	* Prices below.
Sale, "up-stream" draw, Dover-street Bridge Hammett & Son Nov. 8, 1894	Hammett & Son	Nov. 8, 1894	\$150. Paid to the city.

(A) — Furnishing, driving, capping, etc., bents of piles, \$9.52 per pile.
 (B) — Driving and eccuring in place each spurshore, \$6.00 per spurshore.
 (C) — Puthing on oak girders and brace, \$6 per piece.

etc.
Land,
0f
Lease

CONTRACT.	Lessor.	Proposal received.	Price.
Flats and docks for public landing, East Boston East Boston Dry Dock Co July 10, 1894 \$250 per year, payable quarterly.	East Boston Dry Dock Co	July 10, 1894	\$250 per year, payable quarterly.
Land and wharf, Revere street James J. Costello Aug. 1, 1894 \$460.31 per month.	James J. Costello	Aug. 1, 1894	\$460.31 per month.

Quarrying Stone.

Terms.	\$6.35 per ton.	\$0.33 per ton.	\$0.75 per ton.		Price.	\$1,425.00.		Price.	\$0.57 per ton.	\$0.164 per sq. yd.
Proposal received.	Jan. 4, 1894	July 13, 1894	June 10, 1894	Wall.	Proposal received.	Jan. 27, 1894	1 Stone, etc.	Proposal received.	June 26, 1894	July 5, 1894
Lessor.	W. P. Page	C. L. Perrin, Agent	John McMorrow	Removing Wall.	Awarded to	A. A. Elston Jan. 27, 1894	Teaming Crushed Stone, etc.	Awarded to	H. P. Nawn	Owen DohertyJuly 5,1894
CONTRACT.	Quarrying and removing stone from Tremont-street	Quarrying and removing stone from Tremont-street ledge	Quarrying and furnishing stone to Rosseter-street crusher		CONTRACT.	Essex street, corner Lincoln street		CONTRACT.	From Dimock-street crusher to Commonwealth avenue, between Beacon st. and Cottage Farm bridge.	Paving-blocks from Washington street, between Eliot and Boylston streets, to Commonwealth avenue, from Harvard avenue to Washington street

Excavating and Removing Material.

CONTRACT.	Awarded to	Proposal received.	Price.
Arlington st., from Beacon to Marlboro' st J. J. Sullivan	J. J. Sullivan	May 16, 1894	(A) \$0.90 per cubic yard.
Commonwealth ave., north side, Arlington st. to	F. H. Cowin	July 13, 1894	(A) \$0.80 per cubic yard.
Commonwealth ave., north side, Clarendon to Exeter	J. J. Sullivan July 13, 1894	July 13, 1894.	(A) \$0.97 per cubic yard.
Commonwealth ave., north side, Exeter to Gloucester st.	D. F. O'Connell		July 13, 1894 (A) \$0.93 per cubic yard.
Commonwealth ave., north side, Gloucester st. to Massachusetts ave.	Doherty & O'Leary	July 13, 1894	July 13, 1894 (A) \$0.80 per cubic yard.
Commonwealth ave., south side, Arlington st. to	F. H. Cowin	July 14, 1894	(A) \$0.95 per cubic yard.
Commonwealth ave., south side, Clarendon st. to Exeter st.	Doberty & O'Leary July 14, 1894 (A) \$0.89 per cubic yard.	July 14, 1894	(A) \$0.89 per cubic yard.
Commonwealth ave., south side, Exeter st. to Gloucester st.	D. F. O'Connell		July 14, 1894 (A) \$0.99 per cubic yard.
Commonwealth ave., south side, Gloucester st. to	J. J. Sullivan		July 14, 1894 (A) \$0.89 per cubic yard.
Dartmouth st., Boylston to Newbury st	J. J. Sullivan		Sept. 4, 1894 (A) \$0.97 per cubic yard.
Massachusetts ave., south side, Washington to Albany st.	J. J. Sullivan	Sept. 15, 1894	Sept. 15, 1894 (A) 0.75 per cubic yard; (B) 0.12 per square yard.
Cambridge st., Joy st. to Bowdoin sq	S. & R. J. Lombard	Sept. 20, 1894	Sept. 20, 1894 (A) \$0.15 per cubic yard; (B) \$0.15 per square yard.
Charles st., Pinckney to Cambridge st	P. O'Riorden		Sept. 20, 1894 (A) \$0.47 per cubic yard; (B) \$0.17 per square yard.
Albany st., Lehigh st. towards Broadway extension .	P. F. Lonergan	Oct. 1, 1894	P. F. Lonergan Oct. 1, 1894 (A) \$1.12 per cubic yard; (B) \$0.10 per square yard.
(A)—Earth	(A) - Barth excavating.	(B) — Red	(B) - Removing old paving.

Filling.

Proposal received.	Oct. 29, 1894 \$0.83 per cubic yard.	*. Nov. 21, 1894
- Awarded to		J. O'Brien
CONTRACT,	Commonwealth ave., south side, Brighton ave. to Harvard st	75,000 cubic yards, more or less, Boylston st., Boylston of O'Brien

Granolithic Sidewalk and Curb.

CONTRACT.	Awarded to	Proposal received.	Price.
Sidewalk and gutter, Lyndhurst st	Warner H. Jenkins Co	Sept. 17, 1894	Warner H. Jenkins Co Sept. 17, 1894 , \$0.06 per sq. ft., sidewalk; \$0.20 per sq. ft., gutters.
Sidewalk and curb, Faulkner st	Warner H. Jenkins Co	. Oct. 1, 1894	Warner H. Jenkins Co Oct. 1, 1894 Sidewalk, \$0.06 per sq. ft.; curb, \$0.10 per lin. ft.
Harbor View st	Warner H. Jenkins Co	Oct. 1, 1894	Warner H. Jenkins Co Oct. 1, 1894 Sidewalk, \$0.06 per sq. ft.; curb, \$0.10 per lin. ft.
Magnolia st.	Warner H. Jenkins Co Oct. 1, 1894	Oct. 1, 1894	Sidewalk, \$0.06 per sq. ft.; curb, \$0.10 per lin. ft.
Romsey st	Warner H. Jenkins Co	Oct. 1, 1894	Warner H. Jenkins Co Oct. 1, 1894 Sidewalk, \$0.06 per sq. ft.; curb, \$0.10 per lin. ft.
Tremlett st	Warner H. Jenkins Co	Oct. 1, 1894	Warner H. Jenkins Co Oct. 1, 1894 Sidewalk, \$0.06 per sq. ft.; curb, \$0.10 per lin. ft.
Greenheys st	Warner H. Jenkins Co	Oct. 1,1894.	Curb. \$0.10 per lin. ft. In payment for sidewalk, the city furnishes the stone foundation.
The second secon			

Garbage.

Price.	Treatment and final disposition
Proposal received.	July 25, 1894
Awarded to	New England Construction Co.,
CONTRACT.	reatment and final disposition

Collecting and Removing Ashes.

CONTRACT,	Awarded to	Proposal received.	Price.
East Boston	W. F. Hedrington Jan. 25, 1894	Jan. 25, 1894	\$7,300 per year for two years.
South Boston, west of Dorchester st. and Old Colony R.R. to old Dorchester boundary line	Denis O'Sullivan	Feb. 17, 1894	\$5,985 per year for two years.
Meeting house Hill district John McShane Feb. 26, 1894 .	John McShane	Feb. 26, 1894	\$4,237.50 per year for two years.

Collecting and Removing House-Offal.

Price.	\$8,000 per year for three years.
Proposal received.	March 17, 1894
Awarded to	John McShane
CONTRACT.	Meeting-house Hill district John McShane March 17, 1894

Terminated Jan. 21, 1895.

Paving with Trinidad Asphalt.

	r aving with rillinaa aspirate.	idad Aspirato	
CONTRACT.	Awarded to	Proposal received.	Price.
Barton court	Barber Asphalt Paving Co	May 16, 1894	\$2.25 per square yard.
Chambers st., Green to Poplar	Barber Asphalt Paving Co	May 16, 1894	\$2.25 per square yard.
Charter st., Unity to Hanover	Barber Asphalt Paving Co	May 16, 1894	\$2.25 per square yard.
Court sq	Barber Asphalt Paving Co	June 14, 1894	\$2.25 per square yard.
Dartmouth st., Boylston to Newbury	Barber Asphalt Paving Co	Sept. 8, 1894	\$2.25 per square yard.
Oxford st., Beach to Essex	Barber Asphalt Paving Co, Nov. 1, 1894	Nov. 1, 1894	\$2.25 per square yard.
CONTRACT.	Awarded to Proposal received.	Proposal received.	Price.
Pemberton sq	H. Gore & Co.	May 8, 1894	\$2.25 per square yard.
Mason st., about 180 ft. long	H. Gore & Co.	May 25, 1894	\$2.25 per square yard
Fay st.	H. Gore & Co	July 26, 1894	\$2.25 per square yard.
Massachusetts ave., south side, Washington to Albany,	H. Gore & Co	Sept. 17, 1894	\$2.25 per square yard.
Charles st., in front of Massachusetts Charitable Eye and Ear Infirmary	H. Gore & Co	Oct. 3, 1894	\$2.25 per square yard.
Ash st., Oak to Nassau	H. Gore & Co	Oct. 26, 1894	\$2.25 per square yard.
Transmission of the control of the c			

Paving and Regulating.

CONTRACT.	Awarded to	Proposal received.	Price.
Cambridge st., Joy st. to Bowdoin sq		Oct. 3, 1894	Oct. 3, 1894 (A) \$0.90; (E) \$0.08; (F) \$0.18; (G) \$0.90.
Causeway st., Haverhill st. to Nashua st J. Grant & Co	•	Oct. 3, 1894	Oct. 3, 1894 (A) \$0.90; (E) \$0.08; (F) \$0.18; (G) \$0.90.
Charles st., Pinckney st. to Cambridge st. (one side). F. H. Cowin Oct. 3, 1894 (A) \$0.90; (E) \$0.18; (F) \$0.28; (G) \$0.90.	F. H. Cowin	Oct. 3, 1894	(A) \$0.90; (E) \$0.18; (F) \$0.28; (G) \$0.90.
Essex st., Harrison ave. to Kingston st Doherty & O'Leary Oct. 15, 1894 (A) \$0.90; (E) \$0.08; (F) \$0.18; (G) \$0.90.	Doherty & O'Leary	Oct. 15, 1894	(A) \$0.90; (E) \$0.08; (F) \$0.18; (G) \$0.90.
Essex st., Kingston st. to South st	A. A. Libby & Co	Oct. 15, 1894	(A) \$0.90; (E) \$0.08; (F) \$0.18; (G) \$0.90.

EXPLANATION OF LETTERS.

 $^{\rm N}$ A — Price per sq. yd. for laying granite blocks and pitching joints. E — Price per lin. ft. for setting edgestones.

F-Price per sq. yd. for laying brick sidewalks. G-Price per sq. yd. for laying flagging crosswalks and pitching joints.

Retaining-Walls, etc.

Price.	, \$1,974.00.	\$3,200,00,	Wall and steps, Ruth st Simpson Bros May 9, 1894 (A) Material in wall, \$0.38 per cu. ft.; (B) Surfacing, \$0.10 sq. ft.; (C) Steps, \$1.15 per lin. ft.; (D) Platform, \$0.30 per sq. ft., including surfacing.
Proposal received.	Dec. 15, 1893	June 19, 1894	May 9, 1894
Awarded to	J. S. Jacobs & Son	Quimby & Ferguson	Simpson Bros
CONTRACT,	Harcourt st	Across end of Follen st., and addition to wall on Berwiek Park June 19, 1894 \$3,200.00.	Wall and steps, Ruth st

Furnishing and Laying Concrete Base.

CONTRACT.	Awarded to	Proposal received.	Price per cubic yard.
Pemberton sq	Metropolitan Construction Company May 1,1894	May 1, 1894	\$5.00
Dartmouth st., Boylston st. to Newbury st	Metropolitan Construction Company Sept. 8, 1894	Sept. 8, 1894	5.00
Mass. ave., south side Washington st. to Albany st	Metropolitan Construction Company Sept. 17, 1894	Sept. 17, 1894	5.00
Causeway st., in front of Union station	Metropolitan Construction Company Sept. 20, 1894	Sept. 20, 1894	5.00
Charles st., Pinckney st. to Cambridge st	Metropolitan Construction Company Oct. 2, 1894 .	Oct. 2, 1894	5,00
Cambridge st., Joy st. to Bowdoin sq	Metropolitan Construction Company Oct. 4, 1894	Oct. 4, 1894	5.00
Harrison ave., Essex st. towards Beach st.	Metropolitan Construction Company 4, 1894	Oct. 4, 1894	5.00

Street-Building under New Law, Chap. 323, Acts of 1891, as amended by Chap. 418, Acts of 1892.

CONTRACT.	Awarded to	Proposal received.	Prices.
Constructing and regulating a Macadam roadway in Newbury st., Charlesgate, west to Brookline ave.	F. H. Cowin	June 6, 1894	June 6, 1894 (A) \$0.35; (C) \$0.54\frac{1}{2}; (D) \$2.00; (F) \$0.92; (G) \$1.07; (J) \$4.00; (M) \$1.17.
Constructing and regulating a Macadam roadway in Arundel st., Beacon st. to Mountfort st	H. Gore & Co	Sept. 5, 1894	Constructing and regulating a Macadam roadway in Arandel st., Beacon st. to Mountfort st
Constructing and regulating a Macadam roadway in Ivy st., St. Mary's st. to Mountfort st	J. Grant & Co	Sept. 5, 1894	Sept. 5, 1894 (A) \$0.25; (C) \$0.19; (D) \$2.32; (F) \$0.25; (G) \$1.10;
Constructing and regulating a Macadam roadway in Mountfort st., Audubon road to Ivy st	H. Gore & Co	Sept. 5, 1894	Onstructing and regulating a Macadam roadway in M. Gore & Co

Telford-Macadam Roadway (Chap. 323). - Concluded.

CONTRACT.	Awarded to	Proposal received.	Price.
Parker st., Huntington ave. to Westland ave	Doherty & O'Leary	Aug. 7, 1894	(A) \$0.37; (B) \$0.67; (C) \$0.49; (D) \$2.06; (F) \$0.87
Extension filling	Doherty & O'Leary	Aug. 7, 1894	Oherty & O'Leary Aug. 7, 1894 (M) \$1.00; (M) \$1.10.
St. Germain st., Massachusetts ave. to Dallon st.	Quimby & Ferguson	Oct. 27, 1894	(A) \$0.30; (B) \$6.11; (C) \$0.20; (D) \$2.00; (F) \$0.20 (G) \$1.00; (J) \$4.00; (M) \$0.95.

EXPLANATION OF LETTERS.

A—Prices per cu. yd, for grading and preparing roadways and sidewalks, B—Price per sq. yd, for furnishing and placing Telford base (see footnote). C—Price per sq. yd. for furnishing and placing the crushed stone and binder (see footnote). D—Price per sq. yd. for furnishing blocks and paving gutters (see footnote),

F- Price per lin. ft. for furnishing and setting edgestones (see footnote). G-Price per sq. yd. for furnishing pricks and laying sidewalks. J- Price per sq. yd. for furnishing and laying flagging crosswalks. M- Price per cu. yd. for furnishing gravel. On Arundel, Ivy, and Mountfort streets the crushed stone, binder, and edgestones were furnished by the city. On St. Germain street the Telford base, crushed stone, binder, and edgestones were furnished by the city.

Sewer Construction under Chap, 323, Acts of 1891, as amended by Chaps. 418 and 402, Acts of 1892.

	Prices.	Metropolitan Construction Co. April 17, 1894 (A) \$2.19 per lin. ft. earth excavation and refill for 30 × 36 in. brick sewer; (D) \$1.95 per lin. ft. 12-in. pipe sewer; excavation and refill included; (E) \$0.45 per lin. ft. 12-in. pipe catch-basin, drain excavation and refill included; (E) \$0.85 per lin. ft. 10-in. pipe catch-basin, excavation and refill included; (R) \$0.85 per lin. ft. 6-in. pipe bouse drain, excavation and refill included; (M) \$4.65 per cu. yd. brick masonary, Portland coment mortar; (N) \$4.65 per cu. yd. brick masonary, Portland coment mortar; (N) \$4.56 per cu. yd. brick masonary, Portland coment mortar; (N) \$4.55 per cu. yd. concrete; (R) \$4.55 per cu. yd. brick masonary, Portland coment mortar; (D) \$3.95 per cu. yd. concrete; (R) \$4.55 per cu. yd. says per cu. yd. says per cu. yd. concrete; (R) \$4.55 per drop falled, excavation and refill included; (AA) \$35.00 per catch-basin, excavation and refill included.
	Proposal received.	April 17, 1894
Property of the second	Awarded to	Metropolitan Construction Co.
	CONTRACT.	Sewer and connections, Newbury st., Charlesgate west to Brookline ave

(A) \$1.80 per lin. ft. earth excavation and refill for available of the sewer; (A) \$1.80 per lin. ft. earth excavation and refill for overflow manhole; (C) \$1.00 per lin. ft. 18.10. pipe sewer, excavation and refill included; (C) \$1.00 per lin. ft. 20.10. from pipe connection with Story-brook entert; (D) \$1.02 per lin. ft. 20.10. pipe sewer, excavation and refill included; (E) \$6.37 per lin. ft. 12.10. pipe sewer, excavation and refill included; (F) \$6.37 per lin. ft. 12.10. pipe catch-basin drain excavation and refill storaged; (F) \$6.40 per lin. ft. 0.10. pipe and refill included; (G) \$6.50 per lin. ft. foll. pipe acto-basin, drain excavation and refill included; (H) \$6.00 per cn. vd. American cement mortar; (N) \$5.00 per cn. vd. brick masonry, Portland cement mortar; (O) \$4.50 per cn. vd. brick masonry, Portland cement mortar; (O) \$7.00 per cn. vd. brick masonry, Portland cement mortar; (O) \$7.00 per cn. vd. concrete; (R, \$8.00 per M ft. B.N.	(W) \$4.00 per spruce pile; (AA) \$20.00 per catch-basin, excavation and refill included, (ZZ) \$12.00 per drop in-let, excavation and refill included. (D) \$0.73 per lin. ft. 15-in. pipe sewer, excavation and refill included; (E) \$0.69 per lin. ft. 12-in. pipe sewer, excavation and refill included; (F) 0.47 per lin. ft. 0.5-in. pipe exchebasin, drain excavation and refill included; (K) \$0.47 per lin. ft. 10-in. pipe exchebasin, drain excavation and refill included; (K) \$35.00 per manhole; (AA) \$40.00 per catch-basin, excavation and refill included.	18, Arundel st., Beacon to National Construction Co July 28, 1894 (E) \$0.45 per lin. ft.; (AA) \$40.00 each.
•	•	•
May 9, 1894 .	July 26, 1894 .	July 26, 1894
•	•	
wington ave.	Quimby & Ferguson	National Construction Co
Parker st, Huntington ave.	it., St. Mary's to Mount.	con to
untingt.	ary's to	it., Bes
用 . 	St.	indel R
	Ivy st.,	s, Aru
ections,	ections,	nection
land av	d conne	nd con
Sewer and connections, to Westland ave	Sewer and connections, Ivy st., St. Mary's to Mount.	Sewer and connections, Arundel st., Beacon to Mountfort

Sewer Construction under Chap. 323. - Concluded.

Contract.	Awarded to	Proposal received.	. Price.
Sewer and connections, Mountfort st., Ivy to Audubon road	Dennis O'Connell	July 26, 1894	, Mountfort st., Ivy to Au. Dennis O'Connell July 26, 1894 (D) \$0.70 lin. ft.; (E) \$0.45 lin. ft.; (K) \$32.00 each; (AA) \$45.00 each.
Sewer and connections, Norway st., Ward 11 A. A. Libby Oct. 15, 1894	A. A. Libby	Oct. 15, 1894	(D) \$0.69 lin. ft.; (E) \$0.45 lin. ft.; (K) \$30.00 each; (O) \$3.50 cu. yd.; (R) \$30.00 per M ft. B.M.; (AA) \$40.00 each.

EXPLANATION OF LETTERS.

(D) 12-in. pipe sewer, excavation and refill included.
 (E) 6-in. pipe house and 10-in. pipe catch-basin drain, excavation and refill included.
 (K) Manholes.

(0) Concrete.
(R) Spruce lumber.
(AA) Catch-basins, excavation and refill included.

Sewer Construction under the General Law.

CONTRACT.	Awarded to	Proposal received.	Price.
Sewer and connections, Mt. Vernon st., Ward 23 James Dolan 5,1894	James Dolan		(C) \$1.20 per lin. ft.; (D) \$1.20 per lin. ft.; (K) \$40.00 each; (L) \$5.00 per cubic yard.
Sewer and connections, Sturbridge st., River to Sanford	Dennis O'Connell	Jan. 5,1894	strubridge st., River to San. Dennis O'Connell Jan. 5,1894 (C) \$1.20 per lin. ft.; (K) \$35.00 each.
Sewer and connections, Sanford st., Ward 24	D. F. O'Connell & Co	Jan. 5,1894	Sewer and connections, Sanford st., Ward 24 D. F. O'Connell & Co Jan. 5,1894 (B) \$1.10 per lin. ft.; (D) \$1.10 per lin. ft.; (K) \$35.00 each.
Sewer and connections, Story st., G to H John W. Bowers Jan. 5,1894 (D) \$1.00 per lin. ft.; (K) \$40.00 each.	John W. Bowers	Jan. 5,1894	(D) \$1.00 per lin. ft.; (K) \$40.00 each.
Sewer and connections, Commonwealth are,, south side. Pleasant st. to a point 20 feet east of 8t. Paul st., Metropolitan Construction Co. Jan. 28, 1894 (D) \$1.00 per lin. ft.; (K) \$40.00 each.	Metropolitan Construction Co.	Jan. 23,1894	(D) \$1.00 per lin. ft.; (K) \$40.00 each.

(D) \$1.10 per lin. ft.; (F) \$0.12 per lin. ft.; (K) \$40.00 each.	(C) \$1.25 per lin. ft.; (K) \$40.00 each.	(D) \$1.35 per lin.ft.; (K) \$39.00 each; (L) \$4.50 per cu.yd.	(D) \$1.35 per lin. ft.; (K) \$39.00 each; (L) \$4.40 per cu. yd.	(C) \$1.25 per lin.ft.; (K) \$40.00 each; (L) \$4.00 per cu. yd.	(D) \$1.10 per lin. ft.; (K) \$45.00 each; (L) \$5.00 per cu. yd.	(A) \$1.60 per lin. ft.; (C) \$1.40 per lin. ft.; (D) \$1.20 per lin. ft.; (K) \$35.00 each; (L) \$5.00 per cubic yard.	(D) \$1.15 per lin. ft.; (K) \$40.00 each; (L) \$4.50 per cu. yd.	(D) \$1.10 per lin. ft.; (K) \$38.50 each; (L) \$5.00 per cu. yd.	(C) \$0.75 per lin. ft.; (L) \$3.75 per cubic yard.	(D) \$1.10 per lin. ft.; (K) \$38.50 each; (L) \$5.00 per cu. yd.	(C) \$1.30 per lin. ft.; (K) \$67.50 each; (L) \$5.00 per cu. yd.	(C) \$1.25 per lin. ft.; (D) \$1.10 per lin. ft.; (K) \$40.00 each; (L) \$5.00 per cubic yard.	(C) \$1.15 per lin.ft.; (K) \$38.00 each; (L) \$5.00 per cu.yd.	(D) \$1.15 per lin. ft.; (K) \$40.00 each; (L) \$5.00 per cu. yd.	(D) \$1.65 per lin. ft.; (K) \$50.00 each; (L) \$5.00 per cu. yd.	(E) \$1.10 per lin. ft.; (K) \$40.00 each; (L) \$5.00 per cu. yd.
3, 1894	9, 1894	April 30,1894	May 15, 1894	June 30, 1894	7 2, 1894	y 6, 1894	Sept. 8, 1894	Sept. 18, 1894	Sept. 24, 1894	5, 1894.	24, 1894	24, 1894	Nov. 12, 1894	. 3, 1894	. 3, 1894	Dec. 21, 1894
n Co. Feb.	Feb.	· · · · Apr	May	Jun	July	July	Sept	Sept	Sept	0ct.	Oct.	Oet.	Nov	Dec.	Dec.	· · · Dec
Metropolitan Construction Co.	John W. Bowers	John W. Bowers	John W. Bowers	James Dolan	John W. Bowers	W. T. Davis	James Dolan	Thos. J. Young & Co	Andrew Carberry	Thos. J. Young & Co	James Dolan	Thos. J. Young & Co	Dennis O'Connell	James Dolan	Thos. J. Young & Co	Thos. J. Young & Co
Sewer and connections, Commonwealth are, 450 ft. east of Reedsdale st. to a point 500 ft. east of Maivern 8t.	Sewer and connections, Hunneman st., Washington st. to Harrison ave.	Sewer and connections, Park st., W. Roxbury	Sewer and connections, Anawan ave., W. Roxbury .	Sewer and connections, Centre st., Corey to Maple, W. Roxbury	Sewer and connections, Bellevue st., March ave. to end of existing sewer	Sewer and connections, Pond st., May to Avon, W. Roxbury	Sewer and connections, Maple st., W. Roxbury	Sewer and connections, May st	Sewer and connections, Stockton st., Ward 24	Sewer and connections, Centre st., 700 ft. south from May st. to Lowder's lane, W. Roxbury	Sewer and connections, Maple st., Weld st., to Station II, W. Roxbury	Sewer and connections, Tremont st., Brighton	Sewer and connections, Washington st., Ashmont to Dunbar, Dorchester	Sewer and connections, Pond st., Avon to Brockline ave.	Sewer and connections, Bigelow st., Ward 25	Sewer and connections, Bigelow st., Ward 25

Sewer Construction under the General Law. - Concluded.

CONTRACT.	Awarded to	Proposal received.	Price.
sewer and connections, Weld st., Maple to Willow, W. Roxbury	James Dolan	Dec. 29, 1894	Weld st., Maple to Willow, James Dolan Dec. 29, 1894 (C) \$1.50 per lin. ft.; (K) \$56.00 each; (L) \$5.00 per cu. yd.

EXPLANATION OF LETTERS.

(E) — 10·in, pipe sewer, excavation and refill included.
 (F) — 6·in, pipe underdrain.
 (E) — Manholes.
 (L) — Rock excavation.

(A) - 24 in. pipe sewer, excavation and refill included.
 (B) - 18 in. pipe sewer, excavation and refill included.
 (C) - 15 in. pipe sewer, excavation and refill included.
 (D) - 12 in. pipe sewer, excavation and refill included.

arvard Bridge.

CONTRACT.	Awarded to	Proposal received.	Price.
Spruce lumber	G. W. Gale Lumber Co Apr. 18, 1894 \$14.25 per M ft. B.M.	Apr. 18, 1894	\$14.25 per M ft. B.M.
Replanking	May 14, 1894 \$597.00.	May 14, 1894	\$597.00.

Miscellaneous Agreements.

Proposal received.	Mar. 17, 1894 \$2.50 each, driven outside of cap; \$2.75 each, driven inside	Mar. 26, 1894 \$6.00 per lin. ft.	9, 1894 \$1.50 per lin. ft.	July 20, 1894 \$950 each and \$3 per day royalty.	30,1894 \$700.	July 30, 1894 \$1,700.	Sept. 29, 1894 \$1.40 per sq. yd., laying asphalt blocks; \$0.25 per lin. ft. resetting edgestone; \$0.45 per sq. yd. relaying brick sidewalk.	7, 1894 \$100 per yr. paid to city.	July 11, 1894 \$1.80 per ton.	Aug. 29, 1804 The Brookline Gus Light Co. agrees to pay to the city of Boston the sum of \$1,600 towards repaying this street.	Apr. 17, 1894 \$400.	Nov. 8, 1804 \$3.63 per lin. ft.	Mar. 31, 1894 \$0.65 lin. ft. on wharf.	Nov. 15, 1894 Resigner Company for Boston by Norfolk Suburban Street	Dec. 13, 1894 Work done by Street Department, but paid for by the N.Y., N.H., & H. R.R. Co.
Propos	Mar. 1		June		Aug.	July		Dec.			Apr.]	Nov.		Nov.	
Awarded to	Nay & Ellis	Thos. A. Rowe	G. T. McLauthlin & Co	Universal Street Sweeping Machine Co	Patrick J. Lyons Aug. 30, 1894.	Boston Bridge Works	John Turner & Co	Postal Telegraph Cable Co	Street Department		Blodgett Bros. & Co	Horace Sias	Commr's of Public Institutions,		
CONTRACT.	Pile driving, Morrison's Wharf, East Boston	Deerfield st., sea-wall capstones	Deerfield st., sea-wall, iron railing	Three (3) street-sweeping machines	Culvert, Preston st., Dorchester	Berwick Park footbridge. Removing footbridge over B. & A. R.R. at Allston Station, and erecting same over N.Y., N.H., & H. R.R. at Berwick Park	Paving with asphalt blocks, and regulating Derne st	Cable house on Congress-st. bridge	Furnishing crushed stone to Park Department	Repaying Tremont st. bet. Cabot and Prentiss, bet. W. E. St. Ry. Co.'s tracks and westerly curb over trench of Brookline Gas Light Co.	Electric signals, "Draw open," City sq., Charlestown,	Building culvert in City Yard, off Gibson st., Dorchester	Furnishing edgestone	Surface drainage on account of tracks of Norfolk Suburban Street Railway Company	Macadamizing, catch-basins, and sewer work on Cod- man st., for the N.Y., N.H., & H. R.R. Co.

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Paring with granite blocks (pitch joints) on a concrete base, Wash Bering Paring Bobbes, \$74.50 per M; concrete base, \$5.00 per cu. yd.; laying paring Parin	STREET.	Proposal received.		Prices.	
Awarded to Proposal received.		5, 1894	Large blocks, \$74.50 per M and pitching joints, \$0.30 \$0.15 per sq. yd. Large blocks, \$74.50 per M and pitching joints, \$0.30 \$0.15 per sq. yd. Small blocks, \$340.00 per M and pitching joints, \$0.30 \$0.15 per sq. yd. \$0.15 per sq. yd. and pitching joints, \$0.30 \$0.15 per sq. yd.	; concrete base, \$5.00 per per sq. yd.; furnishing an concrete base, \$5.00 per per sq. yd.; furnishing an per sq. yd.; furnishing an per sq. yd.; furnishing an jer sq. yd.;	cu. yd.; laying paring d preparing gravel bed, cu. yd.; laying paring travel bed, d preparing gravel bed, d preparing gravel bed, i aying garing gravel bed, cu. yd.; laying paving cu. yd.; laying paving d preparing gravel bed, id preparing gravel bed,
Awarded to Proposal received. Alexander McMurtry Sept., 1894 Michael Kiernan Sept., 1894 Frank J. Hughes Sept., 1894 Cornelius McCool Sept., 1894 William Finneran Sept., 1894 William Finneran Sept., 1894 James Killian Mar. 22, 1894 H. P. Nawn Mar. 22, 1894 James Killian Mar. 22, 1894 A. McMurtry Nov. 21, 1894	Furnishin	Telford	(as)		
H. P. Nawn Sept., 1894. Michael Kiernan Sept., 1894. Frank J. Hughes Sept., 1894. Cornelius McCool Sept., 1894. William Finneran Sept., 1894. William Gilligan Sept., 1894. William Finneran Sept., 1894. William Finneran Sept., 1894. William Finneran Sept., 1894. William Finneran Aug. 22, 1894. Annes Killian Aug. 21, 1894. Ames Killian Aug. 21, 1894.	CONTRACT.		Awarded to	Proposal received.	Price per ton.
H. P. Nawn Sept., 1894 Michael Kiernan Sept., 1894 Sept., 1894 Sept., 1894 Cornelius McCool Sept., 1894 William Finneran Sept., 1894 James Killian Sept., 1894 William Finneran Sept., 1894 William Finneran Aug. 22, 1894 James Killian Aug. 21, 1894 James Killian Aug. 25, 1894			urtry	1894	\$1.15
Michael Kiernan Sept., 1894 Cornellus McCool Sept., 1894 William Finneran Sept., 1894 William Gilligan Sept., 1894 James Killian Sept., 1894 William Finneran Sept., 1894 William Finneran Aug. 22, 1894 James Killian Aug. 21, 1894 James Killian Aug. 25, 1894		H. P. Nawn		1894	1.15
Frank J. Hughes Sept., 1894 Cornelius McCool Sept., 1894 William Finneran Sept., 1894 James Killian Sept., 1894 William Finneran Sept., 1894 William Finneran Sept., 1894 William Finneran Aug. 22, 1894 James Killian Aug. 21, 1894 James Killian Aug. 25, 1894	Commonwealth ave., Arlington st. to Massachusetts ave.			1894	1.15
Cornelius McCool Sept., 1894 William Fluneran Sept., 1894 James Killian Sept., 1894 William Finneran Sept., 1894 H. P. Nawn Mar. 22, 1894 A. McMartry Aug. 21, 1894					1,15
William Finneran Sept., 1894 James Killian Sept., 1894 William Gilligan Sept., 1894 William Finneran Mar. 22, 1894 H. P. Nawn Aug. 21, 1894 James Killian Aug. 25, 1894 A. McMurtry Nov. 21, 1894	Commonwealth ave., Arlington st. to Massachusetts ave.		lo		1.10
William Gilligan Sept., 1894 James Killian Sept., 1894 William Finneran Mar. 22, 1894 H. P. Nawn Aug. 21, 1894 James Killian Aug. 25, 1894 A. McMurtry Nov. 21, 1894	Commonwealth ave., Arlington st. to Massachusetts ave.		•		1.10
James Killian Sept., 1894 William Finneran Mar. 22, 1894 H. P. Nawn Aug. 21, 1894 James Killian May 25, 1894	Commonwealth ave., Arlington st. to Massachusetts ave.		u		1.10
William Finneran Mar. 22, 1894 H. P. Nawn Aug. 21, 1894 James Killian Aug. 25, 1894	rlington st. to Massachusetts ave.			1894	0.81
H. P. Nawn Aug. 21, 1894 James Killian Aug. 25, 1894 A. McMurtry Nov. 21, 1894	Commonwealth ave., from Cross Roads to Cottage Farm bridge			Mar. 22, 1894	1.20
James Killian Aug. 25, 1894 A. McMurtry Nov. 21, 1894				Aug. 21, 1894	1,15
A. McMurtry	Commonwealth ave., from Cross Roads to Cottage Farm bridge			Aug. 25, 1894	0,81
	Commonwealth ave., from Cross Roads to Cottage Farm bridge			Nov. 21, 1894	0.85

EMPLOYMENT OF LABOR.

During the year ending February 1, 1895, 24 applications were made upon the Civil Service Commission for 28 employees of various grades, and 45 names were submitted by them, of which number 27 were given employment in the several divisions.

Of the 24 applications 3 were for promotions, two being

allowed by the Civil Service Commission.

The rule of the Civil Service classifying bridge engineers and assistants went into effect October 1, 1894, and upon October 29, 1894, the names, rates of wages, etc., of the 17 persons so employed in the Bridge Division were forwarded to the Civil Service Commissioners. During the year 21 persons were transferred to this department from other city departments, and notices of 94 discharges from the department rolls were sent to the Commission.

The department records show that there are 2,434 persons eligible for employment in the various divisions, and of that number 2,100 were upon the pay-rolls ending January 24,

1895.

The following table shows the classification of all employees of the Street Department as at present organized:

Grade and Number of Employees in the Street Department.

			Dr	visions.			
TITLE.	Central Office.	Paving.	Sewer.	Sani- tary.	Street- Clean- ing.	Bridge.	Total.
Superintendent	1						1
Deputy superintendents		1	1	1	1	1	5
Executive engineer	1						1
Purchasing agent and assistant .	2						2
Clerks	1	8	5	4	1	1	20
Foremen		12	11	4	11	3	41
Sub-foremen		26	9	6	12	3	56
Inspectors		6	19				25
Civil engineers		2	3				5
Draughtsmen			10				10
Transitmen			2				2
Levelmen			5				5
Rodmen			13				13
Aids and tallymen		2		8			10
Blacksmiths and assistants		17	1	1	2		21
Bracers			13				13
Bridge cleaners						4	4
Boys			24	-		2	26
Calker						1	1
Captain				1			1
Carpenters and assistants		17	7		2	20	46
Coal-passers			6				6
Draw-tenders						21	21
Assistant draw-tenders						33	33
Deck-hand			1				1
Dumpers				16	7		23
Engineers and assistants		13	16			17	46
Feeders				3			3
Firemen			6				6
Gatemen			4				4
Carried forward	5	104	156	44	36	106	451

Grade and Number of Employees, etc. - Concluded.

			Divi	sions.		•	
Title.	Central Office.	Paving.	Sewer.	Sani-	Street-Clean-ing.	Bridge.	Total.
Brought forward	5	104	156	44	36	106	451
Harness-makers		2		3			5
Helpers				171	61		232
Horse-shoers				3			3
Hostlers			2			1	3
Janitors			2				2
Laborers		389	329		149	1	868
Ledgemen			3				3
Machinists			2				2
Masons (stone and brick)			31				31
Mason's tender			1				1
Mate			1				1
Measurers		3					3
Messengers	2 .	5	5	6	3	4	25
Oilers			5				5
Patch pavers and assistants		-34					34
Painters			1	2		6	9
Pilot			1				1
Pipe layers			3				3
Plank-drivers			2				2
Powdermen		3					3
Riggers			2				2
Stablemen		11	4	7	6		28
Steam-drillers		6					6
Steward			1				1
Stone-cutters		13	4				17
Store-keeper			1				1
Teamsters		67	11	153	62	2	295
Watchmen		11	12	4	2	4	33
Weighers		3					3
Wharfingers		4	1				5
Yardmen		5	2	12	3		22
Totals	7	660	582	405	322	124	2,100

COMPLAINTS.

The following is a complete list of all the complaints entered on the complaint book at this office since February 1, 1894:

Whole number of comp	lair	its .	•	•		•	131
Divided as follows:					70		
Paving Division						5	
Sewer Division			· /•			4	
Sanitary Division			•			97	
Bridge Division						0	
Street-Cleaning Div	isi	on .		•		8	
Street-Watering D	ivis	ion				17	
					-		
Total .						131	

BRIDGE DIVISION.

The Northern District headquarters are located on Warren bridge, and there is ample room in the building and pier which is occupied by them for such horses and teams as are necessary for the work, and storage capacity enough for such tools, blocking, gearing, etc., as are demanded in carrying on the repairs.

The territory covered by this district on general work embraces all the bridges under the charge of the Bridge

Division from Winthrop to Watertown.

The headquarters of the Southern District are located on Foundry street, and comprise an office of limited size, which is also used as a storehouse in lieu of something better, and yard room under the bridge. During the process of strengthening Broadway bridge, for its use by the electric cars, the stable and storehouse belonging to this district were entirely demolished.

A part of a stable on Dorchester avenue was rented to tide over the intervening time during rebuilding, but action on permanent location was postponed from time to time because of certain propositions of land exchanges between the Board of Street Commissioners and the Old Colony Railroad officials.

These are still in abeyance, and it is to be hoped that in the near future a definite understanding will be arrived at, as the Southern District badly needs a building and land where they can have proper accommodations for an office, stable, and storehouse. As they are situated at the present time, they have no facilities.

The territory of this district reaches from the city proper to Milton, and covers all bridges south and east of the

Charles river.

Both districts have telephone connections, and both forces

can be concentrated quickly whenever it is necessary.

The most important of the tide-water bridges under the care of the Bridge Division are twelve (12) in number. Of these, Chelsea North, Chelsea South, Charles river, Warren, L street, Congress street, and Broadway are operated by steam-power. Two are equipped with electricity — Dover street, which has a General Electric motor, and Federal street, which has a Thompson-Houston motor.

Malden and Mt. Washington avenue are worked by hand-

power, and Meridian street by horse-power.

During the rebuilding of Dover-street bridge, Broadway and Federal street were taxed to their uttermost, and required constant attention. Warren-street bridge, in point of travel of all kinds, is the most important of all the tide-

water bridges in Boston.

The establishment of the Boston & Maine R.R. freight yards on the Charlestown side of the channel has augmented the traffic on this bridge greatly, and many times it has been called upon to do the work of both Charlestown bridges. Some idea can be gained when it is considered that during the closing of Charles-river bridge not less than ten thousand vehicles, not including car service, daily used that thoroughfare. All work done on this bridge, where travel is liable to be impeded, is performed on Sundays.

Charles-river bridge has been overhauled and repaired during the year, and will relieve somewhat the immense strain on Warren bridge. A new bridge cannot be too quickly decided upon. Work is progressing rapidly on the new bridge from Chelsea to Charlestown. Chelsea-street bridge from East Boston to Chelsea is nearing completion,

and will be opened for travel in a few weeks.

Malden bridge is in poor condition. Travel is increasing in that direction, and the draw is very narrow, and the draw-piers are old and entirely too short. New electric signals for Warren bridge have been erected at City square, Charlestown, to show when the draw is open.

L-STREET BRIDGE.

During the year the L-street bridge has been opened for travel at the urgent request of many people whose interests are in that direction. On account of the roadway on the Boston end of the bridge not being paved or graded, and being very uneven, and altogether in poor condition, and from the fact that the street was not lighted, it was deemed judicious to restrict the hours of accommodation for travel from sunrise to sunset. Under even these restrictions quite a traffic has developed because of the great saving of distance to those who desire to reach the vicinity of the terminus of the bridge. Steps should be taken to put the street in proper condition for travel.

A plank sidewalk has been constructed on the Boston side

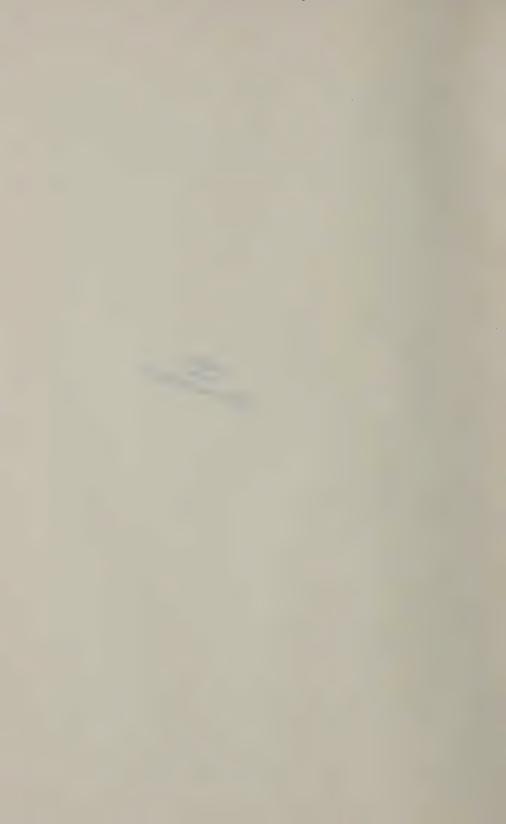
for the accommodation of foot-passengers.

Congress-street Bridge.

This is a wooden pile bridge, built in 1874-5, with an iron turn-table draw on a masonry foundation. The underflooring of the roadbed and sidewalks is in a very bad condition, decaying fast, and steps should be taken in the near



DOVER-STREET BRIDGE OVER FORT POINT CHANNEL. — (Draw Open.)



future for a removal of such parts of the structure. The importance of this bridge to the public can best be realized, and the demands that are required for its safety and accessibility can best be estimated, from the fact that over one and a half million vehicles of every description and weight traverse it yearly. To inconvenience the public as little as possible, all work required on this bridge that might interfere with travel is performed on Sunday. During the present year new steel boilers have been constructed and set in place of the original ones, which were badly used up from a twenty years' service.

DOVER-STREET BRIDGE.

The new structure here has been completed, and is open for travel. The draw is equipped with electricity, furnished by a General Electric motor of twenty-five horsepower. This is the second of Boston's bridges to be thus operated, and from a three years' observation of its use on Federal-street bridge, under all conditions, we can confidently expect the same highly satisfactory results.

The draw-tenders' house has been repaired and painted, and has been moved to a proper location. The draw piers of this bridge are inadequate and not properly located. Steps should be taken to build and extend a pier on the south-easterly side of the draw sufficient to aid navigation in

safely passing through.

Mt. Washington-Avenue Bridge.

The draw piers of this bridge are in bad condition, and should be rebuilt. They are so low that at times they are totally submerged at high water, and consequently then are useless, and do not fulfil their mission. They should be raised as high as practicable. The rest of the bridge is in fair condition. The draw is of iron, and is the only one of importance in the city of Boston that still continues to be operated by hand-power.

BROADWAY BRIDGE.

The draw pier of this bridge is badly decayed, and should be rebuilt without delay. Constant care is required to keep it from collapsing, and a decided improvement would be a continuation of the new pier on the south side to meet the northerly pier of Dover street.

The bridge is in poor condition, and requires frequent inspection and attention. The report of the Deputy Superintendent (Appendix A) gives a detailed statement of expenditures, and amount of work done on each bridge, together with much other information of a useful nature.

CAMBRIDGE BRIDGE DIVISION.

CRAIGIE'S BRIDGE.

The sides of the waterway for the passage of vessels through the bridge have been planked with 3-inch spruce; a bulkhead near the draw has been rebuilt. A weak point near the Cambridge end of the bridge has been strengthened, fences have been repaired, the draw sheathed, sidewalks repaired, and other ordinary repairs made by the aid of the men employed on the bridge. The flooring of the sidewalks near the Cambridge end, and the bulkhead, are in bad condition, and will be rebuilt next season.

HARVARD BRIDGE.

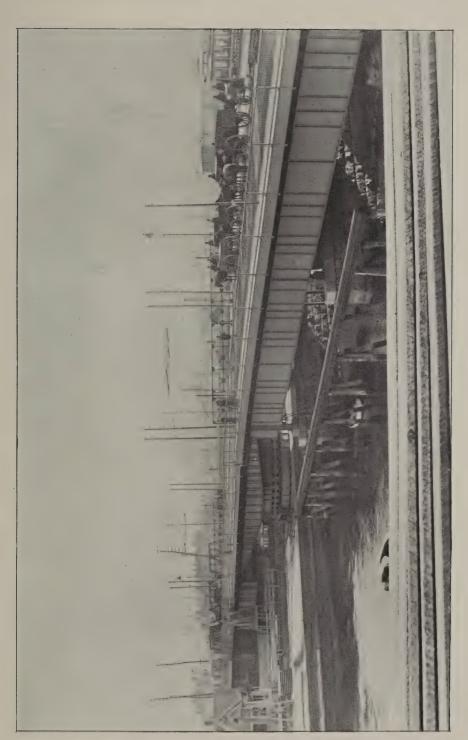
The entire surface plank of the bridge has been renewed without interruption to travel. The West End Street Railway Company replanked between the rails on both tracks for the entire length of the bridge. The draw-tender and his assistants keep the sidewalks free from snow, clean the globes on the electric lights, make all ordinary small repairs on the bridge, and assist in cleaning the roadway. Experience has shown that the roadway planking will have to be renewed as often as once a year. The asphalt sidewalks on the bridge have not given satisfaction, and will be renewed for the entire length of the bridge next year by the contractors. They were laid under a guarantee of maintenance for five years, and are to be left in good condition at the end of that time.

PRISON-POINT BRIDGE.

The house occupied by the draw-tender has been painted inside and newly papered by the draw-tender. Only ordinary repairs, such as planking and sheathing, have been made on the bridge. The draw is in bad condition and needs a thorough repairing.

The question of abolishing the grade crossing on the Boston & Maine Railroad, which adjoins this bridge, is under discussion. If this should be accomplished by carrying the highway over the railroad, it would involve the rebuilding of the bridge. For this reason, only such repairs have been

made as were absolutely necessary for safety.



DOVER-STREET BRIDGE OVER FORT POINT CHANNEL. — (Draw Closed.)



WEST BOSTON BRIDGE.

The underplank of the draw has been partly renewed, part of the waterway on side of the pier has been replanked, spurshores and braces have been bolted and spiked to the piles to keep the bridge in line. The whole length of the bridge under the planking of the roadway has been examined, and strengthened where necessary. The bulkhead at the Boston end of the draw, which has been a source of trouble for some years, has been rebuilt. The work was done between 1 A.M. and 3 P.M., on Sunday, without interruption to travel.

The ordinary repairs, such as sheathing the draw, repairing fences, renewing plank on piers, paving, etc., have been attended to. Much of this work has been done by the draw-tender and his assistants.

IN GENERAL.

The usual statement is appended of the number of draw openings and the number of vessels which passed through; also table showing the traffic over bridges on August 15.

The amount of revenue received for dockage, rents, repairs to West End Street Railway tracks, etc., during the year, has been \$1,195.62; one-half, \$597.81, has been paid to the city of Cambridge.

Number of Times the Draws in Canal, Harvard, Prison Point, and West Boston Bridges have been opened, and the number of Vessels which have passed through, for the year ending Jan. 31, 1895.

DATE.	Ca	nal.	Har	vard.	Prison	Prison Point. West Box		Boston.
February 1, 1894, to January 31, 1895.	Number of Draw Openings.	Number of Vessels Passed Through.	Number of Draw Openings.	Number of Vessels Passed Through.	Number of Draw Openings.	Number of Vessels Passed Through.	Number of Draw Openings.	Number of Vessels Passed Through.
February, 1894	90	119	40	41	14	22	29	44
March	48	73	94	105	24	31	63	121
April	256	305	139	182	21	26	172	255
May	353	459	209	285	42	53	189	308
June	320	401	179	226	36	47	208	310
July	387	407	819	375	- 51	70	218	313
August	330	411	210	248	32	39	207	318
September	367	423	424	475	19	20	220	323
October	375	443	415	456	31	45	239	336
November	317	388	379	450	34	46	202	301
December	314	447	212	232	35	47	145	253
January, 1895	103	148	12	18	25	32	23	34
Totals	3,260	4,024	2,632	3,093	364	478	1,915	2,916

Statement showing Traffic on Bridges.

DATE. 1894.	Bridge.	Foot- Passengers.	Teams.	Cars.	Car Pas- sengers.	Bicycles
A 1 f	Canal	6,682	5,045	492	12,570	104
Aug. 15,	Harvard	2,115	2,771	346	9,109	1,350
6 A. M.	Prison Point	2,200	1,867			65
to 7 P. M.	West Boston	4,429	2,660	1,008	22,514	96
	Total	15,426	12,343	1,846	44,193	1,615

The following is a statement of the payments made by the city of Boston on account of the Canal, Harvard, Prison Point, and West Boston bridges, from February 1, 1894, to January 31, 1895:

Amount of appropriation for	financial	years		
of 1894–95			\$12,000	00
Amount expended to January	31, 1895		11,986	85
Unexpended balance			\$13	15

Classification of Expenses.

1894.	Canal Bridge.	Harvard Bridge.	Prison-Point Bridge.	West Boston Bridge.	General Account.	Total.
Salaries of draw-tenders and assistants	\$1,140 00	\$1,271 00	\$229 11	\$1,250 00		\$3,890 11
. Lumber	371 10	1,236 63	84 62	367 77		2,060 12
Electric lighting	287 52	1,144 51		517 49		1,949 52
General repairs	392 71	383 91	121 46	380 50		1,278 58
Inspection	180 00	157 50	30 00	135 00	*******	502 50
Cleaning bridges	218 56	39 83		218 79	***** ***	477 18
Ironwork	124 44	149 52	45 37	78 78	* * * * * * * * * * *	398 11
Sundries	103 02	122 46	23 20	97 27		345 95
Fuel	134 31	13 46		98 66		246 43
Electric current for motor		150 00				150 00
Watering roadways	62 50			62 50		125 00
Tools and hardware	36 77	38 68	13 20	26 94		115 59
Electric light, repairs, etc		50 18				50 18
Water rates	16 00		5 50	11 00		32 50
Salaries					\$250 00	250 00
Travelling expenses					67 50	67 50
Printing and stationery					47 58	47 58
Totals	\$3,066 93	\$4,757 68	\$552 46	\$3,244 70	\$365 08	\$11,986 85

PAVING DIVISION.

The following table shows the length of public highways and the character of pavements, February 1, 1895:

Length in Miles.

	Sheet Asphalt.	Asphalt Blocks.	Block.	Brick.	Cobble.	Telford and Macadam.	Gravel.	Not graded.	Total.
In previous Report.	5. 66	0.81	77.68	0.36	3.52	211.73	136.00	11.89	447.65
February 1, 1895.									
City Proper	5.26	0.85	*42.13	0.42	2.92	28.05	0.61		80.24
Charlestown	0.03		8.74			13.77	0.03	0.06	22.63
East Boston			4.38		0.17	3.05	19.18	0.18	26.96
South Boston	0.53		11.92		0.05	22.09	1.88	4.03	40.50
Roxbury	0.37		8.06		0.01	55.81	14.04	3.03	81.32
W. Roxbury			0.09			32.92	41.25	2.17	76.43
Dorchester			3.47			47.23	33.24	2.08	86.02
Brighton						16.97	18.87	2.18	38.02
Total	6.19	0.85	78.79	0.42	3.15	219.89	129.10	13.73	452.12

NOTE. — The above districts refer to areas enclosed by the original boundary lines. *Of this amount 2.70 miles = granite-block paving on concrete with pitched joints.

Total length of public streets, 452.12 miles.

There have been laid out and accepted by the Street Commissioners during the year 6.19 linear miles; many square feet have been discontinued without changing the mileage; 1,208.61 linear feet have been discontinued; corrections to previous measurements on account of abolishing grade crossings, and surrender of streets to the Park Department, show a decrease of 1.49 miles; making a total net increase of 4.47 miles. Street widenings have been ordered to the extent of 1,025,329 square feet.

Not included in the above table, there are about 142 miles of private ways and alleys which are not under the care of this department.

The rate of increase from year to year is shown in the following table:

1859111.50 miles.	1883367.99 miles
1871 201.32 "	1884874.10 "
1872207.4 "	1885379.60 "
1873209 24 "	1886383.55 "
1874313.90 "	1887390.30 "
1875318.58 "	1888392.72 "
1876327.50 "	1889
1877333.2 "	1890404.6 "
1878340.39 "	1891409.6 "
1879345.19 "	1892434.59 "
880350 54 "	1893443.34 "
1881355.5 "	1894447.65 "
1882359.85 "	1895452.12 "

Areas of Pavements.

The following table shows the areas of pavements in square yards, arranged by districts:

	Asphalt	Block.	Brick.	Cobble.	Telford and Macadam.	Gravel.	Not graded.	Totals.
Feb. 1, 1894.	111,147	1,677,451	3,638	41,706	3,877,758	2,245,034	219,128	8,175,862
Feb. 1, 1895.								
City Proper,	*107,113	† 902,699	5,166	31,896	523,651	11,221		1,581,746
Charlest'n	421	197,366			205,112	161	1,413	404,473
E. Boston		100,361		3,470	69,569	355,258	3,555	532,213
S. Boston	7,620	251,619		1,192	383,629	38,365	83,599	766,024
Roxbury	6,559	171,993		408	1,005,520	228,745	94,280	1,507,505
W. Roxb'y.		2,067			566,903	639,671	32,321	1,240,962
Dorchester,		74,594			840,059	543,642	78,600	1,536,895
Brighton					403,356	306,397	80,909	790,662
Total	121,713	1,700,699	5,166	36,966	3,997,799	2,245,034	374,677	8,360,480

Total area of public streets, 8,360,480 sq. yds.

^{*} Of this amount, 14,208 sq. yds. = asphalt blocks. † Of this amount, 54,121 sq. yds. = granite-block paving on concrete with pitched joints.

Edgestones and Sidewalks-New Edgestones. (Lin. ft. set.)

	YEAR.	City Proper.	Roxbury.	South Boston.	East Boston.	Dorchester.	West Roxbury.	Brighton.	Charlestown.	Total.
	(1881	6,294	8,328	6,304	443	13,112	1,314	263	794	36,852
	1882	3,398	10,930	4,190	2,119	8,235	5,454	5,543	1,595	47,464
72.	1883	2,763	7,306	4,660	98	2,467	4,381	1,895		23,570
Laid under the law of 1872.	1884	4,691	9,733	6,189	2,450	18,310	4,610	106	696	46,785
aw o	1885	5,291	4,644	2,538	1,333	4,976	1,952	303	546	21,583
he la	{ 1886	5,790	8,978	2,463	349	11,051	2,451	737	174	31,993
ler t	1887	3,222	10,192	4,269	436	5,229	2,726	2,055	223	28,352
l un	1888	4,359	5,191	4,531	971	5,051	580	867		21,550
Laid	1889	2,946	13,224	2,139	1,419	6,794	10,404	1,845	573	39,344
	1890	2,781	11,475	4,946	981	9,882	3,288	3,042	988	37,383
	1891	8,236	22,693	11,724	4,131	18,138	4,617	2,032	2,227	73,798
	1892	9,222	25,506	9,631	11,238	\$6,859	9,970	9,001	2,804	114,231
	1893	1,118	14,979	4,375	1,969	10,587	4,795	3,981		41,804
	1894	1,916	39,324	521	816	6,544	1,568	1,323	694	52,706
-	Total	62,027	192,503	68,480	28,753	157,235	58,110	32,993	11,314	611,415

Brick Sidewalks. (Sq. yds. set.)

	YEAR.	City Proper.	Roxbury.	South Boston,	East Boston.	Dorchester.	West Roxbury.	Brighton.	Charlestown.	Total.
	(1881	5,207	11,491	3,961	893	337	1,096	381	159	23,525
	1882	5,905	7,510	4,984	1,658	179	1,834	117	887	23,074
Laid under the law of 1872.	1883	4,392	7,675	4,794	1,095	2,795	3,354		177	24,282
of]	1884	4,870	7,279	4,437	1,616	4,902	954		739	24,797
law	1885	4,756	3,896	1,473	72 !	892	479	46	342	12,606
r the	1886	5,273	5,285	2,112	1,002	2,843		58	527	17,100
nde	1887	5,970	7,693	3,768	1,500	1,348	643		56	20,978
ud u	1888	2,540	6,910	3,164	1,110	614	346		75	14,759
La	1889	4,835	10,489	1,942	1,362	638	124	138		19,528
	(1890	4,913	7,651	1,915	1,947	1,155	274	900	791	19,546
	1891	3,881	9,098	3,628	2,176	1,478	967	377	120	21,725
	1892	10,423	20,231	4,484	12,847	10,462	2,905	1,068	3,451	65,871
	1893	964	5,912	751	2,197	2,412	350		175	12,761
	1894	1,537	11,533	2,706	2,115	453	834		437	19,615
	Total	65,466	122,653	44,119	32,240	30,508	14,160	3,085	7,936	319,882

Full List of Streets now Paved with Trinidad Asphalt. City Proper.

Name.		Length. Feet.	Area. Sq. yds.
Albany st	From East Concord st. to East Springfield st	450	2,700
Arch st	From Franklin st. to Milk st	426	1,267
Ash st	From Bennet st. to 220 ft. north of Oak st	230	409
Barton court	From Brighton st. to Barton st	134	179
Beacon st	From Charles st. through Arlington st	870	3,800
£6 £6	From Dartmouth st., within 150 ft. of Gloucester st	1,744	9,277
60 60	From 68 ft. of Gloucester st. to Massachusetts ave	1,019	5,391
Bennet st	From 90 ft. west of Harrison ave. to 162 ft. east of Washington st	180	300
Brattle square	From Brattle st. to Elm st	281	670
Brighton st	From Leverett st. to Allen st	845	1,737
Central st	From Broad st. to Kilby st	313	869
Chambers st	From Green st. through Poplar st	460	1,050
Charter st	From Hanover st. to Unity st	318	636
Cherry st	From Washington st. to Shawmut ave	334	594
Clark st	From Hanover st. toward North st	120	227
Columbus ave	From B. & A. R.R. bridge through Massachusetts ave	3,505	15,578
Congress square	From State st. through P. O. ave	110	160
Cooper st	From North Margin st. to Endicott st	166	516
46 66	From Endicott st. to Charlestown st	200	600
Court st	From Washington st. to Court square	231	642
Court square	From Court st. to Court st	665	1,883
Davis st	From Washington st. to Harrison ave	323	646
Dartmouth st	From Boylston st. to Newbury st	266	2,058
Doane st	From Kilby st. to Broad st	312	624
Endicott st	From Cooper st. through Thacher st	312	1,005
Exchange place	From Congress st. to Kilby st	244	678
Groton st	From Washington st. to Shawmut ave	335	558
Hanover ave	From Hanover st. to North st	307	266
Harrison ave	From East Newton st. to East Springfield st		1,464
66 66	From East Springfield st. to Roxbury line		130
Hollis st	From Tremont st. toward Washington st	276	521
Hudson st	From Beach st. to 90 ft. of Curve st	1,407	3,938
Indiana place	From Shawmut ave. to Washington st	343	686
Kilby st	From State st. to Milk st	648	2,628
Malcolm st	From Mt. Vernon st. to Chestnut st	261	290

Streets Paved with Trinidad Asphalt. -- Concluded. City Proper.

Name.		Length. Feet.	Area. Sq. yds.
Massachusetts ave	From Tremont st. to Columbus ave., S'ly road	534	1,621
ec 66	From Tremont st. to Shawmut ave. "	940	2,934
46	From Shawmut ave. to Washington st. "	710	994
Moon st	From between North square and Fleet st	182	384
North Bennet st	From Hanover st. to Salem st	552	920
Parmenter st	66 66 66	279	764
Poplar st	From Chambers st. to Charles st	1,188	2,442
Stillman st	From between Salem st. to Endicott st. (on cobble)	150	41
Stoddard st	From Howard st. to Court st. (on cobble)	135	150
Sun-court st	From North st. to Moon st	151	/ 21
Taylor st	From Dwight st. to Milford st	193	30
Thacher st	From Charlestown st. to Endicott st	203	569
Tileston st	From between Hanover st. and Salem st	254	33
Warrenton st	From Eliot st. to Tremont st	670	1,58
ee ee	From Shawmut ave. to Washington st	468	91
Water st	From Congress st. through Batterymarch st	325	97
Wiggin st	From North Bennet st. to Tileston st	107	11
	South Boston.		
D st	From West Fifth st. to Gold st	126	44
E st	From Third st. to Bolton st	111	41
Rogers st	From Dorchester st. to Preble st	360	48
West Sixth st	From west of C st. toward D st	95	31
West Third st	From west of E st. through E st	185	76
	Roxbury.		
Cabot st	From Tremont st. to Vernon st	1,955	6,5
	Charlestown.		
Austin st	From between Seminary place to Lawrence st	. 144	4

Streets Paved with Sicilian Rock Asphalt. City Proper.

Name.		Length. Feet.	Area. Sq. yds
Charles st	From between Revere st. to Cambridge st	191	228
Decatur st	From Washington st. to Harrison ave	370	781
Dwight st	From Shawmut ave. to Tremont st	716	781
Fay st	From Dover st. to Harrison ave	318	560
Mason st	From point 213 feet south of West street, a distance of 231 feet southerly	231	480
Massachusetts ave	From Washington st. to Albany, Southerly road (unfinished)	1,224	4,151
Motte st	From Harrison ave. to Washington st	332	516
Pemberton sq	In front of Court House	323	1,365
1	South Boston.		
Athens st	Prom B st. to C st	, 515	746
W. Broadway	From 206 ft. east of easterly line of Dorchester ave.	350	1,944
W. Broadway	From Gardner pl. to 150 ft. east	150	648

Streets Paved with Granite Blocks, Pitch, and Pebble Joints, on an American Concrete Base. City Proper.

Name.		Length. Feet.	Area. Sq. yds.
Bedford st	From Chauncy st. to Columbia st	480	1,650
Cambridge st	From Bowdoin sq. through Joy st	741	2,347
Causeway st	From Nashua st. to Haverhill st	692	3,807
Chardon st	From Bowdoin sq. to Merrimac st	738	2,578
Charles st	From Beacon st. to Pinckney st	964	3,856
46	From Pinckney st. through Revere st., one side	243	486
66	From between Revere st. to Cambridge st	411	844
Court st	From Court sq. to Scollay sq	100	267
Devonshire st	From State st. to Milk st	650	2,133
Eliot st	From Washington st. to Pleasant st	1,183	4,634
Exchange st	From State st. to Dock sq	335	589
Harrison ave	From Beach st. toward Essex st	338	2,146
India st	From State st. to Central st	126	921
Kingston st	From Summer st. to Bedford st	308	933
School st	From Washington st. to Tremont st	570	1,298
Tremont st	From Scollay sq. to Boylston st	2,826	12,675
Washington st	From Cornhill through Eliot st	3,504	12,967

The following statement of the City Engineer contains the main features of the special work of construction assigned to him by this department for engineering supervision:

CITY OF BOSTON, ENGINEERING DEPARTMENT, 50 CITY HALL, January 31, 1895.

Mr. B. T. Wheeler, Superintendent of Streets:

SIR: I herewith submit the following report of the work done under my direction for the Street Department during the year 1894.

The following are the principal items of work done:

Block-stone paving, on a concrete base, laid with pitch joints, 12,349.5 square yards, at an average cost of about \$4.75 per square yard.

Block-stone paving, on a gravel base, laid with pitch joints, 5,410 square yards, at an average cost of about

\$3.50 per square yard.

Block-stone paving, on a gravel base, with gravel joints, 34,617 square yards, at an average cost of about \$3.00 per square yard.

Trinidad sheet asphalt, with a binder course of asphaltic cement concrete, on a concrete base, 4,577.6 square yards, at an average cost of about \$3.75 per square yard.

Sicilian rock asphalt, on a concrete base, 2,392.5 square yards, at an average cost of about \$3.75 per square yard.

Edgestone set, 48,678 lin. ft.; brick sidewalk laid, 17,119 square yards; flagging crosswalk laid, 2,361 square yards.

The following is a statement of the streets paved, for which plans were made, lines and grades given, and the work supervised:

Albany Street. — From Broadway to Lehigh street was paved with old granite blocks on a gravel base; the blocks used were the best of those removed from Charles street, the street was sub-graded, and the gutters removed by P. F. Lonergan; the paving, resetting of edgestone, and relaying of brick sidewalks was done by the Paving Division. The surface removed was macadam.

Arlington Street. — From Beacon to Marlborough street was paved with vitrified brick on a concrete base; the street was sub-graded by J. J. Sullivan, the gutters removed by James Dolan; the concrete base was put down and street paved by The Interstate Vitrified Brick and Paving Company, of New Jersey, at their own cost. The edgestones were reset and the brick sidewalk relaid by James Grant & Co. The surface removed was macadam.

Austin Street (Charlestown). — From Washington street to Fitchburg Railroad crossing was paved with granite blocks on a gravel base; the sub-grading was done by the Paving Division. The street was paved, the edgestones reset, the brick sidewalk and the crosswalks relaid by John Turner & Co. The surface removed was old granite blocks.

Barton Court. — From Barton to Brighton street was paved with Trinidad asphalt, with a binder layer of asphaltic cement concrete on the existing cobble-stone pavement,

by the Barber Asphalt Paving Company.

Blue Hill Avenue. — From Dudley street to 80 feet north of Dalmatia street was paved with large granite blocks on a gravel base; the sub-grading was done by the Paving Division. From Dudley to Moreland street the street was paved, the edgestone reset, and the brick sidewalks and crosswalks relaid by the Paving Division.

From Moreland street the paving was done by D. N. Payson. Two new catch-basins were built on the easterly side, one at Stafford street and one at Devens street. The

surface removed was macadam.

Bowker Street. — From Chardon to Sudbury street was paved with large granite blocks on a gravel base, with pitch joints. The old pavement was removed and the street was sub-graded by the Paving Division. The street was paved, the edgestones reset, and the brick sidewalks relaid by James Grant & Co. The West End Street Railroad Company, by agreement, paid for an amount of paving equivalent to the area previously occupied by their tracks. The

pavement removed was cobble-stone.

Cambridge Street. — From Joy street to Bowdoin square was paved with large granite blocks on a concrete base, with pitch joints; the old block pavement was removed, and sub-grading done by S. & R. J. Lombard; the blocks and material excavated became the property of the contractor. The concrete base was put down by the Metropolitan Construction Company, the street was paved, the edgestones reset, and the brick sidewalks and granite flagging crosswalks relaid by James Grant & Co. The West End Street Railway Company agreed to pay for the work done between the rails of their tracks, which work was done in a similar manner to the rest of the street, by H. Gore & Co. The pavement removed was old granite blocks.

Causeway Street. — From west side of Nashua to east side of Haverhill street was paved with large granite blocks on a concrete base; the sub-grading was done by the Paving Division, the concrete base was laid by the Metropolitan Construction Company, the street was paved, the edge-

stones reset, and the brick sidewalks and granite flagging

crosswalks relaid by J. Grant & Co.

There were four new catch-basins built on the northerly side of the street. The pavement removed was old granite blocks. The roadway was widened on the northerly side about 10 feet, by removing the old brick sidewalk, and using the space in front of the new Union Station for a sidewalk; the roadway was also improved by removing one of the West End Railway tracks between Portland street and Canal street and moving the other track over to the northerly curb. A granolithic sidewalk was laid in front of the old Lowell Station by the Warner H. Jenkins Company.

Chambers Street. — From Green to Poplar street was resurfaced with Trinidad asphalt on the old cobble-stone pavement by the Barber Asphalt Paving Company. The

surface removed was old Trinidad asphalt.

Chapman Street (Charlestown). — From Austin street to Rutherford avenue was paved with large granite blocks on a gravel base, the bed was prepared by the Paving Division, the street was paved, the edgestones reset, and the brick sidewalks and flagging crosswalks relaid by J. Turner & Co.

The pavement removed was old granite blocks.

Charles Street. — From Pinckney to Cambridge street, on the westerly side, except in front of the Eye and Ear Infirmary, was paved with large granite blocks laid with pitch joints on a concrete base; the old pavement was removed and the street sub-graded by P. O'Riordan and by the Paving Division. The best of the old blocks were used on Albany street, from Broadway to Lehigh street. The concrete base was laid by the Metropolitan Construction Company. paving, including the westerly track of the West End Street Railway, the edgestone resetting, the brick sidewalk and granite flagging crosswalk relaying was done by F. H. Cowin. The West End Street Railway by agreement paid for the work done in their track. It was intended to pave the street in front of the Eye and Ear Infirmary with Sicilian rock asphalt, but on account of unfavorable weather the work had to be postponed; this part of the street was made passable by putting in crushed stone temporarily. The pavement removed was old granite blocks.

Charter Street. — From Hanover to Unity street was surfaced with two feet of Trinidad asphalt and binder on the cobble-stone base by the Barber Asphalt Paving Company; the cobble-stone base was regulated, the edgestones reset, and the brick sidewalk flagging crosswalks relaid by James Grant & Co. The former pavement was cobble-stone.

Court Square.— The easterly and southerly roadways were resurfaced with Trinidad asphalt and binder on a concrete base by the Barber Asphalt Paving Company. The old concrete base having been found to be poorly graded, and it not being deemed expedient to relay the same, considerable extra work had to be done in order to shape the binder so as to give a proper crown to the street.

Commonwealth Avenue. — From Arlington street to Mas-

sachusetts avenue, see page 60.

Dartmouth Street.— From Boylston street to Newbury street was paved with Trinidad asphalt on a concrete base by the Barber Asphalt Paving Company. The sub-grading was done by J. J. Sullivan; the concrete base was laid by the Metropolitan Construction Company. The edgestone was reset in part and the brick sidewalk relaid by H. Gore & Co. The original intention was to pave the street from curb to curb with asphalt, but the West End Street Railway was allowed to pave with granite blocks between the rails of their track, until the horse cars now running there are replaced by electrics. The former surface was macadam.

Derne Street. — From Hancock to Temple street was paved with Hastings asphalt blocks on a base of crushed stone, by J. Turner & Co. The sub-grading was done, the edgestone was reset (north side), and the brick sidewalk (north side) was relaid by J. Turner & Co. The cobblestone, old edgestone, and material excavated became the property of the contractor. On the southerly side of the street the State House Commissioners put in a combination granite curb and gutter and a granolithic sidewalk. One catch-basin was rebuilt at the corner of Hancock street; the

former pavement was cobble-stone.

East Eighth Street. — From Old Harbor to G street (north side) and G to H street, on both sides of the railroad track, was paved with large granite blocks on a gravel base. The sub-grading was done by the Paving Division, and the street paved, edgestones reset, brick sidewalk and flagging crosswalks relaid by H. Gore & Co. The former surface

was macadam.

East Second Street. — From I to K street was paved with large granite blocks on a gravel base; the sub-grading was done by the Paving Division, and the street paved, edgestone reset, brick sidewalk and flagging crosswalk relaid by H. Gore & Co. The former surface was macadam.

Essex Street. — From Harrison avenue to Kingston street was paved with large granite blocks on a gravel base, with pitch joints; the sub-grading was done by the Paving Division, and the street paved, edgestone reset, brick sidewalk

and flagging crosswalk relaid, by Doherty & O'Leary. The former pavement was old granite blocks. The street was

widened to a uniform width of fifty feet.

Essex Street. — From Kingston to South street was paved with large granite blocks on a gravel base, partly with pitch joints and partly with gravel joints. The sub-grading was done by the Paving Division, and the edgestone reset, brick sidewalks and flagging crosswalks relaid, by A. A. Libby & Co. The former pavement was old granite blocks. This street was widened to a uniform width of fifty feet.

Fay Street. — From Dover street to Harrison avenue was surfaced with Sicilian rock asphalt on the existing cobble stone pavement, by H. Gore & Co. This work was commenced in 1893. (See report of Superintendent of Streets

for 1893.)

Harrison Avenue. — From Beach to Essex street; from Beach street 200 feet toward Essex street was paved with large granite blocks on a concrete base with pitch joints. The rest of the street was paved temporarily until the West End Street Railway can obtain and put in new special work. The concrete base was put in by the Metropolitan Construction Company; the rest of the work was done by the Paving Division. The work done was necessitated by the widening of the avenue. The former pavement was old granite blocks.

Lewis-Street Extension. — From North to Moon street was paved with granite blocks on a gravel base. The subgrading was done by the Paving Division, and the paving was done, edgestone set, brick sidewalk and flagging crosswalks laid, by P. W. Hernon. One new catch-basin was built at the corner of North street. This extension was laid

out in 1893.

Mason Street. — At Boston and Bijou theatres was surfaced with Sicilian rock asphalt on cobblestone base with binder, by H. Gore & Co. The base was regulated, the edgestone reset, and the brick sidewalks relaid by Paving

Division. The former pavement was cobble-stone.

Massachusetts Avenue. — The southerly roadway, from Washington to Albany street, was to have been surfaced with Sicilian rock asphalt on a concrete base by H. Gore & Co., but only about 275 feet from Washington street was laid, when the weather became so unfavorable on account of the lateness of the season, that work had to be suspended. The excavating to sub-grade and removing of gutters was done by J. J. Sullivan. The concrete was put down by the Metropolitan Construction Co.; the edgestones reset and the brick sidewalk relaid by H. Gore & Co. A granolithic sidewalk in front of the City Hospital building was laid by

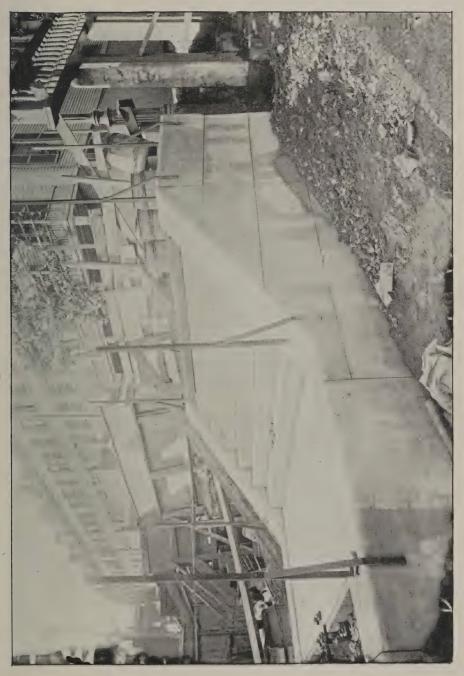
Simpson Bros. The centre parkway was extended about 130 feet to within 16 feet of Albany street, and a driveway was built across it opposite the entrance to the Hospital. The uncompleted roadway between Washington street and Harrison avenue was made passable by covering the concrete with crushed stone; the part between Harrison avenue and Albany street was closed to travel, and the concrete covered with seaweed to protect it from the frost. Nine new catch-basins were built between Harrison avenue and Albany street,—four on the northerly roadway and five on the southerly roadway,— and one was rebuilt at the corner of Albany street. The former surface was macadam.

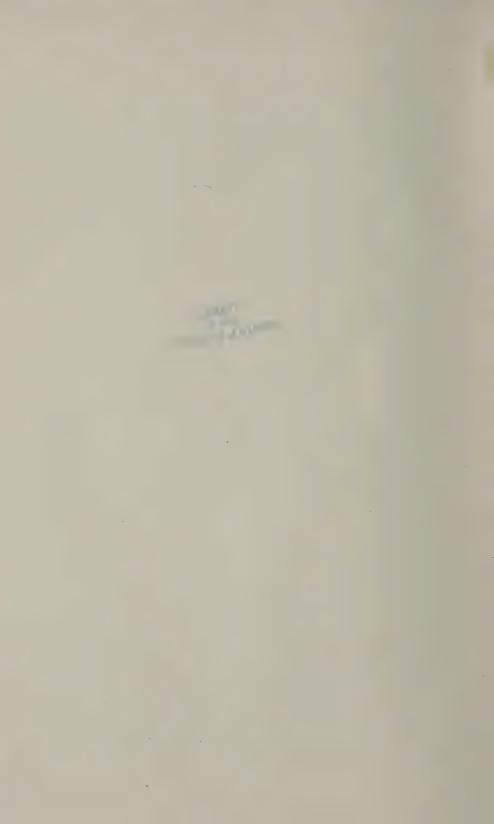
Park Street and City Square, Charlestown. — The paving on this street, which was not completed in 1893, was

finished in April of the present year.

Pemberton Square. — In front of the new Court House was surfaced with Sicilian rock asphalt on a concrete base. by H. Gore & Co. In the southerly corner, where the teams of Houghton & Dutton are loaded, the square was paved with large granite blocks on gravel base with pitch joints, by J. Grant & Co. The concrete base was laid by the Metropolitan Construction Company. The excavation to sub-grade was done by the Paving Division; the old gutter paving removed by J. Dolan; the edgestone reset by J. Grant & Co.; a granolithic sidewalk was laid on the westerly side of the square, and on part of the easterly side, by Simpson Bros.; and five new catch-basins were built. The former pavement was macadam. The old planting space in the square, containing four trees, was removed, the edgestone in front of the Court House was laid out in a circular arc, very nearly concentric with the edgestone on the opposite side of the roadway, making a roadway about 36 feet wide; at the back of the sidewalk was placed a curb of special design, between which and the building it is intended to make a grass plot.

Ruth-Street Extension. — This way or foot-path is in East Boston, and serves to connect Webster street and Marginal street, which are parallel streets, about 240 feet apart, but with a difference of level at this point of about 45 feet. The extension is about 138 feet long and 11½ feet wide. It consists of 7 flights of artificial stone steps connected by platforms of the same material. An additional flight of 13 steps connects Brigham street with Ruth street. The artificial stone work was done by Simpson Bros., at a cost of \$2,122.93. The iron railing and fence work was furnished by G. T. McLauthlin & Co., and cost \$554.97. The excavation, foundations, stone retaining-walls, and wooden fences were furnished by the Street Department. This is the first





example of the use of "artificial stone" on any considerable scale that the city has yet made. It is used here for walks, steps, and retaining-walls. It makes a fine-looking job, and

thus far the experience has been satisfactory.

Utica Street. — From Kneeland street to the angle was paved with large granite blocks on a gravel base, by the Paving Division. About 350 square yards of the old cobblestone were removed by J. Dolan, the rest by the Paving Division. The edgestone, brick sidewalks, and crosswalks were relaid by the Paving Division. One new catch-basin was built. The former pavement was cobble-stone.

Washington Street. — From Essex to Eliot street was paved with large granite blocks on a concrete base with pitch joints, by H. Gore & Co. The old block paving was removed to Commonwealth avenue beyond Harvard avenue, by O. Doherty. The sub-grading was done by the Paving Division, and the edgestone reset, brick sidewalks and granite flagging crosswalks relaid, by H. Gore & Co.

The West End Street Railway, by agreement, paid for the work done between the rails, which work was done in a similar manner to the rest of the street. Two new catch-basins were built. The former pavement was old granite blocks.

GRADING STREET-RAILWAY TRACKS.

The work of properly grading street-railway tracks to fit a permanent surface of the street has been continued. This requires much labor, and it seems proper that the railway company should bear a portion of the cost of so doing. This has been arranged by requiring a survey of the street surface, with levels, to be made by the railroad engineers in all cases where street construction work has not been ordered by the Street Department. The grades for the tracks are then established and blue-prints of the working plans are furnished the railroads.

The following tracks have been graded:

WEST END STREET RAILWAY.

Bowdoin Street. - From Washington street to Geneva avenue.

Cambridge Street. — From Joy street to Bowdoin square. Causeway Street. - From Billerica through Haverhill street.

Centre Street. - From Cedar to Pynchon and Cedar to Eliot square.

Central Square. — East Boston.

Charles Street. — From Pinckney to Cambridge street.

Clarendon Street. — Across Commonwealth avenue.

Commonwealth Avenue. — From Beacon street to Cottage Farm bridge and St. Paul street to near Malvern street.

Dartmouth Street. — From Boylston to Newbury street and across Commonwealth avenue.

Dover Street. — From 200 feet west of Albany street to Dover-street bridge.

Eagle Street. — From junction of Lexington street to new car-house.

Essex Street. — From Harrison avenue to Kingston street. Harrison Avenue. — From Essex to Beach street.

Huntington Avenue. — From 2,950 feet south of Gainsborough to Tremont street.

Lexington Street. — From Meridian to Marion street. Lexington Street. - From Eagle to Prescott street.

Meridian Street. — From Central square to Chelsea street. Prescott Street. — From Lexington to Saratoga street.

Tremont Street. — At Huntington avenue.

Warren Street. — From Elm Hill avenue to Brunswick street.

Washington Street. — From Boylston to Hollis street and Boston & Albany Railroad bridge to Warrenton street.

West Fourth Street. — From Dover-street bridge through Dorchester avenue.

NORFOLK SUBURBAN STREET RAILWAY.

Hyde Park Avenue. — From Hyde Park line to Forest Hills.

QUINCY & BOSTON STREET RAILWAY.

Neponset Avenue. — At Neponset bridge.

Surveys, plans, and estimates for improving and paving the following streets have been made; construction not yet commenced:

Albany Street. — From old East Springfield to Northampton street.

Arlington Street. — From Marlborough through Commonwealth avenue.

Ash Street. — From Oak to Nassau street.

Austin Street. — From Fitchburg Railroad crossing to Prison-point bridge.

Bartlett Street. — From Washington street about 500 feet

westerly.

Bennington Street. — From Wordsworth to Saratoga street. Chelsea Street. — From Bennington to Saratoga street.

Congress Street. — From Atlantic avenue to Congressstreet bridge.

Court Avenue. — And Corn Hill court.

Dartmouth Street. — From Warren avenue to Columbus

Harrison Avenue. — From Beach to Kneeland street.

Harrison Avenue. — From Dudley to Warren street. Harrison Avenue. — From East Springfield to Northampton street.

Massachusetts Avenue. — From Washington to Albany street (northerly roadway).

Merchants Row. — From State to South Market street. Milk Street. — From Washington to Congress street.

Northampton Street. - From Harrison avenue to Albany street.

North Margin Street. — From Cooper to Stillman street. Norway Street. - From Massachusetts avenue to Falmouth street.

Oxford Street. — From Beach to Essex street.

State Street. — From Merchants row to India street.

Washington Street. — From Hollis to Boston & Albany Railroad bridge.

Water Street. — From Washington to Devonshire street.

MISCELLANEOUS WORK.

Essex and Lincoln Streets. — On February 7, 1894, a contract was made with A. A. Elston to take down the old building standing upon the widening of the above-named streets, and upon the estate of John Farlow, for the sum of \$1,425, which work was satisfactorily completed.

West End Street Railroad Co. — The tracks of the above company were removed from the following streets, and the cost of repaying the same with granite blocks on a gravel base with pitch joints was paid by the company. Measurements of the areas of paving, to be so paid for, were made and returned.

Bowker Street. — From Chardon to Sudbury street. Broad Street. — From Wharf to Franklin street. Fleet Street. — From Hanover to Commercial street. Foundry Street. — From Division to W. Fourth street. Franklin Street. — From Broad through Congress street. High Street. — From Engine-house to Oliver street. Milk Street. — From Oliver to Congress street. Oliver Street. - From High to Milk street.

Surveys and plans were made for work upon the following

streets; grades and lines were given, but the work of construction was not supervised by this department:

Dartmouth Street. — From Tremont street to Warren avenue was paved with old granite blocks from Dover and Albany streets; a plan was prepared and lines and grades given for paving, resetting edgestones, relaying brick sidewalks and flagging crosswalks, the work being done by the Paving Division. The West End Street Railway tracks were not regraded. The former surface was macadam.

Tufts Street. — From Kingston to Lincoln street was repaved with granite blocks, gravel base. A plan was prepared and lines and grades given. The work of paving the roadway, resetting the edgestone, relaying the brick sidewalks and flagging crosswalks, was done by the Paving

Division.

Rutherford Avenue. — From Devens to Chapman street was paved with granite blocks on gravel base. A plan was made and lines and grades given. The work of paving, resetting edgestones, relaying brick sidewalks and flagging crosswalks, was done by the Paving Division. The former surface was macadam. One new catch-basin was built and three old ones rebuilt.

Thompson Street. — From Main to Warren street was macadamized. A plan was made and lines and grades given. The work of macadamizing, resetting edgestones, relaying brick sidewalks, was done by the Paving Division.

The former pavement was cobble-stone.

Phipps Street (Charlestown). — Was paved with granite blocks on gravel bed. A plan was prepared and lines and grades given. The work of paving the roadway, resetting edgestones, relaying brick sidewalks, was done by the Paving Division. The former pavement was cobble-stone.

Charles Street. — From Main to Bunker Hill street was paved with large granite blocks on a gravel base; lines and grades were given. The work of paving the roadway, resetting the edge-stone, relaying brick sidewalks, was done by the Paving Division. The former surface was cobblestone. Sprague Street. — From Princeton to Bunker Hill street

Sprague Street. — From Princeton to Bunker Hill street was macadamized. The edgestone was set, cobble gutters and brick sidewalks were laid by the Paving Division. The

former pavement was gravel.

Oak Street. — From Washington street to Harrison avenue was paved with granite blocks on a gravel base. A plan was prepared and lines and grades given. The work of paving roadway, resetting edgestone, relaying brick sidewalks and flagging crosswalks, was done by the Paving

Division. The former pavement was blocks and cobble-stone mixed.

Utica Street. — From Kneeland to Beach street was paved with granite blocks on a gravel base. A plan was made and lines and grades given. The work of paving the roadway, resetting edgestone, and relaying brick sidewalks was done by the Paving Division. The former pavement was old granite blocks.

Congress Street. — From A street to L-street bridge. The work on the plank sidewalk and fence, which was begun last

year, has been completed.

Bushnell Street (called Peabody Square). — A plan was made showing the present and proposed location of trees; a plan and specification was also prepared for a circular park curb, and lines and grades given for setting the same. The work was done by the Paving Division. One catch-basin and one drop inlet built.

Vale Street. — From Dorchester street to Mercer street. Cross section and an estimate were made for filling the above to grade, and lines and grades given for filling the same.

Preliminary estimates were made for repairing or rebuilding ninety streets.

NEW STREETS.

During the early part of the season of 1894 three streets, viz., Miner street, Bay State road, and Deerfield street, which were reported last year as uncompleted, were finished. The following streets have been contracted for, under the provisions of Chap. 323 of the Acts of the Legislature of 1891, as amended by Chap. 418 of the Acts of 1892; the entire expense of construction is borne by the abutter, and sewer, gas, and water pipes, with house connections to the sidewalk, are laid in advance of the street construction:

Arundel Street. — From Beacon to Mountfort street, about 271 feet long, is practically completed at a total cost of \$1,843.45. For itemized prices and quantities, see table accompanying this report. The contractors were H. Gore & Co. It is a 6-inch macadam street.

Ivy Street. — From St. Mary to Mountfort, not including the Audubon-road intersection, is about 772 feet long. This contract, which was awarded to J. Grant & Co., is not yet completed, and there remains to be done the spreading of the binder, watering, and rolling. It is a 6-inch macadam street.

Mountfort Street. — From Audubon road to Ivy street is about 427 feet long. This street was constructed by H.

Gore & Co., at a cost of \$2,549.93. It is a 6-inch macadam street.

Newbury Street. — From Charlesgate West to Brookline avenue, about 1,271 feet in length, was built by F. H. Cowin & Co., at a total cost of \$10,386.93. This is a 6-inch macadam street.

Parker Street. — The contract for constructing and regulating this portion of this street from Huntington avenue to Westland avenue, about 1,687 feet long, was awarded to Messrs. Doherty & O'Leary. The work is not yet finished. It is to be a Telford roadway, the base to be 10 inches, and the broken stone 6 inches, in thickness.

St. Germain Street. — The contract for building St. Germain street, from Massachusetts avenue to Dalton street, about 749 feet long, was awarded to Quimby & Ferguson, but on account of the lateness of the season they were able to do only the filling to sub-grade. This is to be a Telford roadway, the base to be 8 inches, and the broken stone to be 6 inches, in thickness.

Boylston Street. — A contract for filling the Boylston-street extension, from Boylston road to Brookline avenue, about 2,070 feet in length, was awarded to J. O'Brien on December 1, 1894, at the rate of $\$0.62\frac{1}{2}$ per cubic yard, measured in the bank. The order of laying out requires a gravel roadway with gravel sidewalks.

COMMONWEALTH AVENUE.

This avenue now extends under one name from the Public Garden to the Newton line, a total length of 5.59 miles, it having been extended from the Chestnut Hill Reservoir gate to the Newton line, where it connects with a new avenue bearing the same name, which, like the part in Boston, is only partially completed. This avenue extends through the heart of Newton, a farther distance of four miles.

Commonwealth avenue in Boston varies in width from 120 to 200 feet, and is laid out partly as a parkway, in the care of the Park Department, partly as a highway, with heavy teaming ruled off by order of the Board of Aldermen, and partly as an ordinary highway. It was formed of portions of streets formerly bearing different names, with widenings and extensions made at different times. The extension of the avenue from Beacon street has been under construction for the last eleven years, during which time about one million two hundred and seventy-five thousand dollars has been expended upon it. A large amount of work has been done upon every part of it, excepting the most recent

extension, and a large amount yet remains to be done to complete the enterprise.

The following is a short account of what has already been done, together with a statement of its present condition and

an approximate estimate of the cost of completion:

Beginning at the Public Garden in Boston, the first section, extending to Beacon street, a distance of 1.44 miles, was taken by the Park Commissioners, under Chap. 300, Acts of 1893, as a parkway. This section is uniformly two hundred feet wide. The part of it between the Public Garden and Massachusetts avenue has two roadways and a central planting space. The northerly roadway is thirty-five feet wide between curbs; the southerly roadway is thirty-five feet between curbs; the central planting space is one hundred feet wide, with a gravel walk in the centre eighteen feet wide, and the sidewalks, each, fifteen feet wide. The roadways have been rebuilt this season in a thorough manner with Telford roads. The work was done by the Street Department for the Park Department. The excavation of the old surface was let in eight contracts. The stone for the Telford foundation was furnished by ten contractors and by the Street Department, and was set by four contractors. The old gutter blocks were removed by two contractors, and new ones were furnished by two contractors and from the city paving yards, and were set in place by four contractors. The edgestones were reset, where necessary, and the sidewalks repayed in part by two contractors. Broken stone for the macadam surface was furnished by two contractors, and from two city crushers. Steam-rollers were furnished from the Street and Park Departments and from contractors, the maximum number used was six. Gravel for gutter paving was furnished by the Street Department, and the broken stone was received and spread, and all miscellaneous work required to connect the various contracts was done, by the regular force of the Street Department. Platform scales were set up on the work, and all Telford and macadam materials were received by weight. The broken trap rock was weighed on cars.

Each roadway has two gutters, three feet in width. The Telford road has a base of Roxbury conglomerate eight and a half inches thick, thoroughly rolled, and a surface of broken stone four and a half inches thick after rolling. Between Arlington and Fairfield streets, the surface is trap rock from Salem and Waltham, furnished by the Massachusetts Broken Stone Company. From Fairfield to Gloucester street, on the northerly roadway, the surface is Roxbury conglomerate from Humboldt avenue, furnished by H. P. Nawn, and the

remaining blocks are surfaced with Roxbury conglomerate from the Tremont and Codman street ledges, mixed indiscriminately. No binding material, except stone screenings, was used, and on each section the screenings were of the same material as the broken stone. The intersections of cross streets were put in good order, and the street railways on Clarendon and Dartmouth streets were rebuilt with entirely new material, and Clarendon street was paved with

granite blocks.

The total area of gutter paving was 7,446.7 sq. yds. The total weight of Telford base stone used was 11,806.64 tons, on 30,025.4 sq. yds., or 786.44 lbs. per sq. yd. The weight of trap rock macadam used was 7,467.36 tons, on 20,313 sq. yds., or 735.23 lbs. per sq. yd. The total weight of Roxbury stone macadam used was 4,211.08 tons on 11,842 sq. yds., or 711.21 lbs. per sq. yd. The result in weight of stone indicates that a considerably thicker road was actually built than was intended. The surface was kept at grade, and whatever settlement was caused by the weight of the heavy rollers was made good by additional broken stone.

The intersections of cross streets are built on a Telford base only in the continuation of the avenue roadways; the balance of the intersections were surfaced with broken stone and rolled. The quantity of broken stone used on them could not be exactly determined, and it was assumed that one-half the regular thickness was applied. The work was begun on July 30, 1894, and completed on November 20, 1894. The total cost of work on this section was \$84,373.10, less \$9,600 allowed for old materials removed; making the net

cost \$74,773.10.

The remainder of this section is irregularly laid out, and

is connected with the Back Bay Fens.

The next section, from Beacon street to Cottage Farm bridge, is .79 mile in length and 160 feet in width; it is laid out in the following manner: Commencing on the southerly line sidewalk, 10 feet; planting space, 12 feet; roadway, 35 feet; grass and electric railroad, 33 feet; roadway, 45 feet; planting space, 10 feet; and sidewalk, 15 feet. The filling on this section by the Boston Contracting Company, and their successors, the Fidelity and Deposit Company, of Maryland, was completed on September 23, 1893. The total quantity of material delivered was 57,675 cubic yards, at \$0.41 per yard, amounting to \$23,646.75.

Telford stone was accumulated during the preceding winter, and the southerly roadway between Beacon street and Cottage Farm bridge was built during the year 1894 by the regular force of the Street Department. A fence and wooden

sidewalk on the southerly side was built by the carpenters of the Bridge Division of the Street Department; the gutters were paved by contract. The roadway is a Telford road, with a face ten inches thick, and six inches of Roxbury stone macadam. The northerly roadway was built in 1893 in the same manner, except that the macadam is trap rock. This section is practically completed to within three hundred feet of Cottage Farm bridge. The sewers, gas and water pipes, are laid in the side planting spaces.

The abutments of the bridge were built during the year. By arrangement with the Boston & Albany Railroad these abutments are built partly in the railroad location, and the part of the bridge which was formerly maintained by the railroad will hereafter be maintained by the city. The central abutment and the bridge have not yet been

built.

Essex street connects with the widened avenue on the northerly side, so as to render considerable filling necessary to make even a temporary connection. The plan, as arranged by the Board of Survey, contemplates ultimately elevating Essex street and crossing the Grand Junction Railroad by a bridge; but it will be necessary to make a temporary grade of about 6 per cent, crossing the track at grade, in order to keep the street open until the Board of

Survey plan is carried out.

Westerly from the bridge to Brighton avenue the section is 160 feet in width and the distance is .69 mile. For about 1,000 feet westerly from the bridge, through the marsh, there has been an excessive settlement of filling with a large displacement of mud; only one temporary roadway has been built here. An unexpected settlement took place at this point, requiring some 16,000 cubic yards of surplus filling, for which the contractor was paid an extra sum of money. The filling on this section was completed on August 9, 1894, and while it is probable that settlement will continue for some years, it is probable that a fair street surface can be maintained. There are no sewers, gas, water, or surface drain pipes laid in the "marsh section," cept the large main water and gas pipes. The remainder of the section to Brighton avenue has one roadway completed. This is a Telford road of Roxbury stone of the same thickness as those east of the bridge, and was built by the Street Department in 1894. The remaining roadway (on the southerly side) has been built to sub-grade of gravel, with the intention of finishing it with gravel as a soft road suitable for fast driving.

The width, plan, and disposition of water, gas, and sewer pipes is the same as in the section east of the Cottage Farm bridge. A considerable amount of work on sidewalks, loam

spaces, and fences remains to be done.

The section between Brighton avenue and Warren street is .88 mile long and 200 feet wide. It is laid out with three roadways, a saddle-path, three grass plots, and two sidewalks; the width of each and their order, commencing on the southerly side, as follows: Sidewalk, 10 feet; grass plot, 10 feet; roadway, 26 feet; grass plot, 29 feet; central roadway, 50 feet; saddle-path, 20 feet; grass plot, 9 feet; roadway, 26 feet; grass plot, 10 feet; sidewalk, 10 feet. The central roadway has been built and has been in use for several years. It was necessary to raise its grade for about 1,200 feet in length to fit the new grade adopted; the amount of this change in grade is from 0 to 1 foot, in vertical height. The sub-grading is completed on a large part of this section, and the construction of the two side roads has been com-The side roads are to be of lighter construction than in the preceding section, the depth being for Telford base 8 inches, for macadam, 4 inches. The sewer and surface drain work on this section is substantially finished, and there are nearly enough paving-blocks on the ground for the gutters. These blocks came from the section of the avenue taken by the Park Commissioners, with the understanding that \$3,500 is to be paid for them when funds are available.

The section between Warren street and Chestnut Hill avenue is 200 feet wide and 1.07 miles long. This is an uneven and rocky section, with two sidewalks, 7.5 feet wide, and a roadway 50 feet wide winding irregularly through the location; it was built some years since. On September 15, 1884, in the Board of Aldermen, it was "Ordered, That the Board adopt the plan and profile for constructing Massachusetts avenue, in the Brighton District, as prepared by Henry M. Wightman, City Engineer, dated September 11, 1884, and deposited in the office of the said City Engineer, the said plan being a modification of a plan of said avenue designed by Frederick L. Olmsted. It being understood that the construction of said avenue shall be substantially in accordance with said plan. Passed."

The plan referred to has disappeared, but a copy exists. The road built does not exactly follow the plan, and no design has been adopted for the treatment of the remainder of the 200-feet location. A plan has recently been made which collects all the information concerning this section that is available, including the streets contemplated by

the Board of Survey, and the grades considered or adopted by them, and on this has been sketched a plan for building a series of side roads, and rough estimates have been made of the cost of completing the roads in accordance therewith. There will remain large areas of uneven land with high ledges between these roads, which, from their bold character, and the fine views from their summits, may be ornamentally treated, if desired. It would seem desirable that Mr. Olmsted should complete his design, and that this portion of the avenue should be built in accordance with it.

The remaining section between Chestnut Hill avenue and the Newton line is .72 mile long, and has been laid out as an ordinary highway. The plan provides for two roadways, three grass plots, and two sidewalks, disposed of as follows: Beginning at the southerly side: sidewalk, 10 feet; grass plot, 5 feet; roadway, 40 feet; grass and electric road, 25 feet; roadway, 25 feet; grass plot, 5 feet; sidewalk, 10 feet.

The estimated cost of completing the avenue from Beacon street to the Newton line, as outlined above, and exclusive of the cost of sewers and surface drains, and including land damages, is \$556,598, or about \$400,000, excluding the extension recently made beyond Chestnut Hill avenue, and provided that material is transferred from section to section. The estimates by sections are appended:

Estimated cost to complete the construction:		
Beacon street to Warren street	\$188,405	00
Warren street to Chestnut Hill avenue .	164,157	00
Chestnut Hill avenue to Newton line .	99,685	40
Bridge at Cottage Farm, cost to complete,	60,159	00
Chestnut Hill avenue to Newton line, land		
damages, estimated by Street Commis-		
sioners	44,191	00
Total	\$556,598	00

Fifteen per cent. for engineering and contingencies has been added in each section.

This estimate contemplates charging the section between Warren street and Chestnut Hill avenue with \$22,920 for earth filling to be received from the section between Chestnut Hill avenue and the Newton line, and crediting the first-named section with \$9,000 for rock to be used on the other sections.

Plans have been made showing the different methods of construction at different sections of the avenue, and also a

proposed method of completing the avenue from Warren street to Chestnut Hill avenue.

The following table shows the sums heretofore appropriated and expended upon the avenue:

DATE.	Appropriation.	Land Damages.	Construction and Miscellaneous.	Total Amount expended.
1883	\$55,000 00	\$24,800 00		\$24,800 00
1884	50,000 00	14,462 00	\$49,992 03	64,454 03
1885	50,000 00	19,713 68	4,813 21	24,526 89
1886	40,000 00		65,481 08	65,481 08
1887	125,000 00	14,000 00	9,932 70	23,932 70
1888	111,500 00		46,069 45	46,069 45
1889		40,366 98	49,070 24	89,437 22
1890	107,438 04	223,071 06	22,165 61	245,236 67
1891				
1892	286,233 01	* * * * * * * * * * * * * * * * *	123,170 81	123,170 81
1893	203,000 00	56,527 00	209,719 65	266,246 65
1894	247,000 00	30,275 00	271,349 47	301,624 47
	\$1,275,171 05	\$423,215 72	\$846,313 34	\$1,274,979 97
Balance				\$191 08

SIDEWALK PLANS.

A set of plans was made for the Street Department some years ago. The design was to show on one plan all pavements, gutters, sidewalks, street railways, and crossings, edgestones, all sewer and water pipes, and, in fact, all structures as they exist upon or under the surface of the public streets. The custody of these plans was turned over to this department in 1892, and a certain amount of work has been done each year toward bringing them up to date. The amount of work which the available force of the office can do each year is so small that most of the plans are hopelessly behind. They had not been recently corrected when they were turned over to us, and they are further behind now than they were then. Imperfect as they are, they are constantly consulted, and they can never perhaps be made absolutely

correct, as many streets in the older parts of the city contain structures of which there is no record. Under the present regulations it is possible to oblige all parties or corporations, having authority to use the public streets, to file plans of their structures, and it is a work of compilation to gather all the information into one plan of record. Until recently, it was necessary to gather most of this information from the street itself.

Unless means are provided by which more work can be done than is possible to do under the present conditions, the usefulness of these plans will diminish rapidly, and it will soon become a waste of effort to do anything upon them. An inspection of these plans has recently been made, and the following summary of their number and condition is given:

City Proper.

Of this division of the city there are 50 sectional plans, on a scale of 50 feet to an inch. The plans are nearly worn out, and as nothing has been done on them for many years, they are incomplete, and are incorrect in many particulars. These plans are used constantly. New plans should be made on a scale of 30 feet to an inch, similar to the Roxbury and Dorchester sectional plans. This would increase the number of plans from 50 to about 150.

Charlestown.

Of this division of the city there are 30 sectional plans, upon a scale of 30 feet to an inch. The set is incomplete, as 10 plans were either never made or have been lost. The plans are in good condition, so far as they go; but for several years nothing has been done upon them.

East Boston.

Of this division of the city there are 37 sectional plans, upon a scale of 40 feet to an inch. Seven plans have either never been made or have been lost, and there are no plans of Breed's Island. The plans are in good condition.

South Boston.

Of this division of the city there are 39 plans, upon a scale of 40 feet to an inch. Eleven plans required to complete the set have never been made. The plans are in good condition.

Roxbury.

Of this division of the city there are 79 plans, upon a scale of 40 feet to an inch. Two plans are missing, and 12 additional plans are required to complete the set. Twenty-five of these plans are very much worn and should be replaced. With the exception of the missing plans, this set is correct to January, 1895.

Dorchester.

Of this division of the city there should be 215 plans in the complete set. One hundred and six of the plans have been

made, and are in good condition.

This district is growing rapidly, many new streets have been built since the plans were made, and many calls are made for the plans not yet made. These plans are upon a scale of 40 feet to an inch.

West Roxbury.

Of this division of the city there are 34 sectional plans, upon a scale of 40 feet to an inch. The plans are in good condition, but nothing has been done upon them for some years. About 300 plans would be required to complete the set, but as portions of this district are thinly settled, 100 additional plans would probably be sufficient for the next ten years.

Brighton.

Of this division of the city there are no sectional plans. There are 39 rolled plans, showing most of the principal streets, but nothing has been done upon these plans for many years. Sectional plans should be made of this district, the plans being made as needed. To make the complete set 120 plans would be required, upon a scale of 40 feet to an inch.

Summary.

The Roxbury set has been brought up to January, 1895, and some work has been done upon the South Boston and Dorchester sets. Each sheet, when corrected, is marked correct to the proper date in pencil. The remaining sheets have not been corrected for four years certainly, and it is unknown just when they were last corrected.

To maintain these plans in proper condition, a draughtsman and one assistant should be employed to take charge of them, to know all about them, to be responsible for their safe-keeping, to attend to people who desire to consult them, and to give their whole time to their correction. In one year, with the aid of such help as can be given by the remainder of the force in the winter, enough progress can be made to determine what the cost of keeping up such a set of plans will be, and it should then be settled whether it is worth while to continue to do so or not. The pay of a draughtsman and assistant, competent to do this work, at present rates, need not exceed \$1,600 per annum.

Berwick Park Footbridge, over Providence Division, New York, New Haven, & Hartford Railroad.

Plans and specifications for a retaining-wall on Follen street, and additions to the present retaining-wall on Berwick park, were prepared, and on June 21 a contract for doing this was concluded with Quimby & Ferguson for the sum of \$3,200. These retaining-walls form the supports of an iron footbridge similar to that over the railroad at Irvington street. The iron stairways and piers were furnished by the Boston Bridge Works, at a cost of \$1,200. The iron span is that formerly used at Franklin street, Allston; it was taken down, moved, and erected at Berwick park by the Boston Bridge Works for the sum of \$500.

BOYLSTON-STREET BRIDGE, OVER BOSTON & ALBANY RAILROAD.

Iron railings have been erected on this bridge, and on one of the street retaining-walls. The work was done by the Boston Bridge Works from plans and specifications prepared by this Department.

CHARLES RIVER BRIDGE.

This bridge, which was closed to team-travel on account of its dangerous condition, has been temporarily strengthened for the passage of light teams and foot-travel. The work was done by Trumbull & Ryan and the Bridge Division of the Street Department. The amount paid Trumbull & Ryan under their contract was \$2,909.94.

CHELSEA-STREET BRIDGE.

A contract was made with B. F. Nay & Co., on August 20, for removing the old bridge, including the draw and draw-pier, and rebuilding the entire pile bridge and draw-pier, and on September 6 a contract was made with the Boston Bridge Works for building a steel swing draw. The work is so nearly completed that it is probable that the bridge will be opened for travel early in the present month.

COTTAGE FARM BRIDGE, OVER THE BOSTON & ALBANY RAILROAD.

The abutments of this bridge have been extended to provide for a new bridge of a width equal to that of Commonwealth avenue at this point, and a retaining-wall built on the northerly line of Commonwealth avenue, between the northerly abutment and Essex street.

The plans and specification for this work were prepared by the Engineering Department, and the work done by

Leavitt, Daily, & Crockett, for the sum of \$40,219.80.

Yours respectfully,

[Signed]

WILLIAM JACKSON,

City Engineer.

STREET OPENINGS.

Eighteen thousand five hundred and fifty-two permits were granted during the past year to open streets. The excavations made under these permits aggregate 198.8 miles in length, and show the extent of this work.

The Street Department has been accustomed to grant to the various gas and other companies, whose work would in certain cases admit of no delay, a so-called "emergency permit," which allowed excavations to be made without special permission being obtained, the only requirement being that a daily return of openings made under this form of permit should be forwarded to the office of the superintendent.

Two thousand five hundred and seventy-six openings of an average length of six feet each were made under "emergency permits" for breaks in water and gas pipes which were alleged to require immediate attention. These openings were made under 99 permits.

In addition to the above permits, various other permits have been issued to pedlers, mechanics, and others, for different purposes, 14,376 in number; making the total

number of permits issued 32,928.

Mention was made in last year's report that real-estate owners are extremely careless in providing sewer and water connections for their several buildings, both old and new, in streets that are advertised to be improved and regulated, and frequently call for a permit to open for gas, water, or sewer connections soon after the department has put down a permanent payement.

Such cases are of frequent occurrence. The blame is

usually shifted off on unnoticed negligence of the contractor or somebody else, while the utter uselessness of a building without gas or water is put forward in the plea for consent

to the opening being made.

The only remedy would seem to be to demand the forfeiture of a sufficient sum of money to repay the department for the necessary labor of making the pavement good with its own force. If let off with any lighter concession, the chances are that repetitions of neglect will occur, and the pavement itself will not receive the full measure of care in replacement that the regulations stipulate.

STREET-WATERING.

In 1891 for the first time the Street Department assumed the responsibility of watering streets on a more enlarged scale and on a different system. Numerous public hearings were given on the subject of street-watering before the work was started, but were productive only in stirring up opposition to the proposed plan of assessing the expense of watering upon the estates abutting on streets and portions of streets watered, in proportion to the linear feet of frontage of each estate.

This was decidedly objectionable to the residents of suburban districts. The residents of the outlying sections of the city contended that such assessments would be exceedingly heavy upon them, as their frontages are comparatively large and the value of the estates relatively small. The owners of unimproved property also felt that such an arrangement would be a burden upon them.

The objections resulted in the substitution for the proposed assessment of a yearly appropriation for street-water-

ing to be met by the general tax-levy.

To satisfy the complaints from Back Bay and South End residents on account of the unreasonable prices hitherto charged for the work, these two sections were let out by contract, to be paid for by the city, and the rest of the macadamized portions were watered by day carts, also at the city's expense. Paved streets, however, have been made the exception, and are still watered by private contractors at the abutter's expense on the subscription plan.

The results of the first two years were subjected to careful study, and adjustments in the distribution of the force and water-posts rendered the organization more efficient, until, with the modern equipments, the entire work was es-

tablished on a more thorough and systematic basis.

The year 1894 was the driest and hottest season since this system of street-watering was inaugurated. With the humidity at 40, the thermometer at 90, and high winds, it was impossible at times to keep the dust down, and there were many days during the season when the atmospheric conditions were such that double the number of carts would have been necessary to manage and control the dust. The full force of carts was needed every day for a period in-

cluding June, July, and part of August, an unusually long

spell of dry weather.

The total number of miles of macadam streets watered this year was 296.66, an increase of 17.36 miles over last year. The contractors watered at the expense of the abutters 32.50 miles of paved streets. The total number of miles of macadam and paved streets watered was 329.56, an increase over the year previous of 20.83 miles. The paved streets of the city proper are quite free from dust and in a clean condition, from frequent sweeping.

The department feels that the original cost of paved streets and the extra care taken of them does not warrant

their free watering.

The watering of paved streets by contractors has been so excessive at times that it was necessary to prohibit it after 4 o'clock P.M. in order that the pavements might dry out

preparatory for the night sweeping.

When asphalt streets are flanked on either side by macadam streets, it is well-nigh impossible to keep them free from dust. Beacon street, for example, is intersected by sixteen (16) macadam streets, from the gutters of which more or less dirt and dust blows on to the asphalt, and in wet weather mud from the same is tracked on to the asphalt surface by both wheels and hoofs. Constant sweeping, supplemented by occasional light sprinkling with fresh water, is the only proper treatment for asphalt paving, although this course has not obtained the past year.

Street-watering was begun this year on March 6 (last year March 19) and continued until December 1. A few carts were out on December 20 and 22. They could have been used oftener in this month, but the temperature would not permit. Streets cannot be watered if the thermometer

is below 34°.

On August 10 both roadways of Commonwealth avenue were deducted from the contract because of construction, and were not watered from then to the end of the season.

To improve and facilitate the street-watering 24 new stand-pipes were erected. Much time is saved by establishing stand-pipes at convenient intervals, and more effectual watering can be done when the distance to obtain fresh supplies of water is not great.

The old style copper sprinklers have vanished and modern

styles have taken their places.

The following table shows the changes that have been effected in the style of watering-carts during the past two years:

The second secon	Old Copper.	Studebaker.	Abbott- Downing.	Potter Patent.	Miller Knoblock.	
1892	61	4	16	27		108
1894		59	30	18	2	109

Summary of Day Work paid for by the City.

No.	· District.	No. of carts hired by day.	No. teams owned by city.	No. miles covered.	Average miles per day per cart.
1	South Boston	9		22.80	2.53
2	East Boston	7		17.61	2.52
3	Charlestown	7		15.00	2.14
4	Brighton	11	2	32.00	2.46
5	W. Roxbury	15	2	58.66	3.45
6	Dorchester	16	1	56.99	3.35
7	Roxbury	18		53.04	2.95
8	Back Bay	3		5.85	1.95
9	Beacon Hill	2		4.21	2.10
10	South Yard	2		5.04	2.52
	Totals	90	5	271.20	2.85

This summary shows that ninety carts hired by the day and five carts owned by the city watered 271.20 miles of streets daily for the season. Last year ninety-four carts watered 257.45 miles of streets.

The cost of day and city work, exclusive of supervision, was \$229 per mile, or \$62,192.50, as against \$298 per mile and a total of \$76,725 last year.

The carts averaged 2.85 miles of streets per day as against 2.74 miles last year. Watering was commenced on March 6, and continued until December 1, although in Back Bay, streets were watered on December 20 and 22.

Summary of Contract Work paid for by the City.

Districts.	Contractors.	Carts.	Miles.	Cost.
Back Bay	M. E. Nawn	9	11.78003	\$6,696 02
South End	O. Nute & Son	4½	9.18760	5,128 15
Totals		13½	20.96763	\$11,824 17

This table shows that thirteen and a half carts were used by the contractors to water 20.96763 miles of streets.

The Back Bay was watered with fresh water entirely this year. In the South End salt and fresh water were used, as last year.

The contract price in the Back Bay was \$575 per mile for fresh water. The price paid for the work in the South End was \$630 per mile for salt water and \$460 per mile for fresh water.

Work done by Contractors at the Expense of the Abutters.

District.	Contractors.	Carts.	Miles.
City Proper	Daniel Clark	3	3.67
City Proper	Potter Bros	5	8.75
City Proper	Proctor Bros. & Billings	5	7.25
City Proper	O. Nute & Son	1/2	1.50
East Boston	J. H. Fitzpatrick	1	2.00
Charlestown	W. H. Quigley,	1	2.00
Roxbury and South Boston	H. P. Cook & Co	3	6.51
Roxbury	William Gilligan	1	1.25
Totals		19½	32.93

The above work was done for, and at the expense of the abutters. The streets watered are all paved. The table shows that with 19½ carts these contractors watered 32.93 miles of streets in the City Proper, South Boston, East Boston, Charlestown, and Roxbury.

This is an increase over last year of $1\frac{1}{2}$ carts and 3.50 miles of streets.

Work done by the Contractors Free of Cost to the City.

Name.	Carts.	Miles.
Proctor Bros. & Billings	1	1.64
Potter Bros	1/2	.94
Daniel Clark	- 1/2	.86
H. P. Cook & Co	4	.52
Gilligan Bros	4	.54
Totals	21/2	4.50

This summary shows that five contractors with $2\frac{1}{2}$ carts watered 4.50 miles of streets free of cost to the city on return for the privilege of watering paved streets for the abutters.

The Superintendent of Streets required that they agree to this watering before granting them permits which ensures them the exclusive right of soliciting watering patronage from paved streets within certain defined limits, with the privilege of using the city stand-pipes and water.

Summary of Work done which was paid for by the City.

No.	DISTRICT.	Miles, day work.	Miles, contract work.	Total miles.
1	South Boston	22.80		22.80
2	East Boston	17 61		17.61
3	Charlestown	15.00		15.00
4	Brighton	32.00		32 00
5	West Roxbury .	58 66		58.66
6	Dorchester	56 99		56.99
7	Roxbury	53.04		53.04
8	Back Bay	5.85	11.78	17.63
9	Beacon Hill	4.21		4.21
10	South Yard	5.04	9.18	14.22
	Totals	271.20	20.96	292.16
		or about	or about	
		3,579,857 sq. yds.	459,384 sq. yds.	

Cost of day and city work, exclusive of supervision, \$229.32 per mile.

Cost of contract work, exclusive of supervision, \$564.13. The apparent discrepancy between the cost of day work and that of contract work is accounted for by the fact that the contract watering obtained only in the South End and Back Bay Districts, where the streets are generally wide, and were partly watered with salt water.

The slight excess in cost per mile of contract work over last year was due to an early start in watering. The contractors are paid by the day for work done in March and December, the season extending, as per contract, from April 1 to December 1. The cost of contract, day, and city work was \$74,016.67. This expense is the cost exclusive of supervision, water-posts, repairs, etc. Water was furnished by the Boston Water Board at no expense.

Distribution of Carts, showing Entire Amount of Work done.

No.	DISTRICT.	City carts.	Hired carts.	Contractors' carts.	Total.	Miles.
1	South Boston		9	1 .	10	24.55
2	East Boston		7	1	8	19.61
3	Charlestown		7	1	. 8	17.00
4	Brighton	2	11		13	32.00
5	W. Roxbury	2	15		17	58.66
6	Dorchester	1	16		17	56.99
7	Roxbury		18	3	21	59.05
8	City Proper	1 + + • • • • •	7	27	34	57.23
	Free Watering.			21/2	21/2	4.50
	Totals	5	. 90	35½	130½	329.59

Money Expended, 1894.

	37	66	2	20	80	32	40	29	88
Totals.	\$6,531 8	5,673 9	5,360 97	9,819 2	12,750 08	12,622 3	12,757 4	21,653 7	\$87,169 08
Sundries.								\$560 92	\$560 92
Horse-hire.	•		•		•			\$782 04	\$682 04
New carts.		•			•	•		\$906 05	2 \$906 05
Water-posts.	\$59 42	262 04	44 02	189 75	381 18	538 42	308 52	267 25	\$2,050 60
Labor.	\$659 45	659 45	659 45	659 45	1,318 90	1,318 90	1,318 88	1,978 32	\$8,572.80
Hired carts.	\$5,812 50	4,752 50	4,657 50	7,587 50	00 208'6	10,100 00	11,130 00	5,055 00	\$58,900 00
Contractors' carts.						•	•	\$12,104 17	\$3,292 50 1 \$12,104 17
City carts.	•			\$1,382 50	1,245 00	00 299			\$3,292 50
DISTRICT.	South Boston	East Boston	Charlestown	Brighton	West Roxbury	Dorchester	Roxbury	City Proper	Total
No.	-	63	ಣ	4	10	9	2	∞	

2 One new Studebaker included.

1 \$280 due from last year.

The following table shows the amount expended in streetwatering by the city for the last seventeen (17) years:

1878	•	\$23,595	02	1887			\$51,365	73
1879	•	26,747	18	1888	•		40,586	
1880	•	33,306	95	1889			47,837	46
1881		36,178	24	1890		•	57,967	34
1882	• `	45,797	00	1891		•	104,263	62
1883		53,502	29	1892	•		94,507	80
1884		34,518	47	1893		٠	99,430	16
1885	•	43,854	68	1894			87,169	08
1886	**	44,940	35					

WATER-POSTS OR STAND-PIPES.

In order to improve the watering service this year twenty-four new stand-pipes were erected in different parts of the city. Seven stand-pipes were reëstablished for various causes, principally on account of new streets, and new buildings being constructed where the pipes were formerly ocated.

The following table shows the locality of the pipes by districts:

District.	1891.	1892.	1893.	1894.	Increase over 1893.
South Boston	23	25	27	27	
East Boston	16	23	28	32	4
Charlestown	19	19	20	20	
Brighton	25	39	42	44	2
West Roxbury	50	59	60	65	5
Dorchester	61	72	75	82	7
Roxbury	53	60	65	68	3
City Proper	24	42	45	48	3
Totals	271	339	362	386	24

An increase of 115 stand-pipes since 1891.

INCOME.

The Watering Division during the year watered streets in front of 106 school-houses, 14 police stations, and 28 enginehouses. In addition to the number cited we watered around several school-houses in course of construction.

The following sums were charged for street-watering:

					_				
Board of Pol	lice ,					•	•	\$192	57
Engine-hous	es .						•	411	95
Louisburg so	quare			•		•		100	00
Marcella-stre	eet Ho	me	•			. ,	• 1	28	00
Homœopathi	e Hos	pital	•					105	00
Dispensary I								12	25
Fairfax and	Beaur	nont	street	ts				50	00
Section, Wa	shingt	on st	reet,	Jama	ica Pl	ain		7	00
							_		
Total		•						\$906	77

Owing to lack of appropriation the School Board last year refused to pay for the watering in front of their schoolhouses.

The Boston Water Board, by its uniform promptness in furnishing new posts, in turning on or shutting off water, and in many other ways, has rendered the division much assistance during the year.

Mr. J. W. Smith, the Local Forecast official, offered valuable help by the mailing of weather maps twice a day

and the furnishing of weather records.

SANITARY DIVISION.

The work of the Sanitary Division includes the removal of house-offal and the removal of house and store dirt and ashes, accumulated from the burning of materials for heating buildings and for domestic purposes.

The following table shows the number of loads of offal

collected and removed in the last eleven (11) years:

AMOUNT OF HOUSE-OFFAL REMOVED.

Year.								No. of Loads.
1884			•	٠			•	28,520
1885			•					31,206
1886								33,170
1887			•	• (, ,			36,724
1888				•	·•			37,409
1889				•				40,183
1890		•	•				٠	40,525
1891^{1}								46,742
1892	۰					4		46,343
1893								51,415
1894	•			۰			۰	50,637

Each load of offal is equivalent to fifty-seven (57) cubic feet, and weighs one and one-half $(1\frac{1}{2})$ tons at certain seasons of the year, at others less.

The above table does not include previous to the year 1893 the amount collected by contract in East Boston and Brighton, which amounted to about 5,100 loads per year. Of the amount (50,637 loads) collected during the year 1894, 3,720 loads were collected by the East Boston contractor, 1,539 loads were collected by the Brighton contractor, and 3,296 loads were collected by the Dorchester contractor, leaving 42,082 loads collected by city teams.

The collection of this material is attended to in winter by an average regular force of 75 city offal carts and 163 men, and on contract work 16 offal carts and 32 men; making a total of 91 offal carts and 196 men. At different times, and especially in summer, an approximate extra force of 21 teams and 42 men are employed.

¹ Thirteen months.

The disposal has been made during the year in the following manner: The offal from the markets, and offal that is decayed, is put on board a scow and towed to sea; the offal of Charlestown is taken to the yard at Malden bridge and then disposed of to farmers; the offal of East Boston is collected by contractors, and is removed to Revere; the offal of the City Proper and South Boston is conveyed to the yard at the South End, and disposed of to farmers, who remove it daily; the offal of Roxbury and West Roxbury is conveyed to the yard on Highland street, and disposed of to farmers; a portion of the collections of West Roxbury is collected and sold to one man, who in turn sells it in Dedham: the offal of Brighton is collected by contract and disposed of outside of the district; and the offal in Dorchester has begun to be disposed of at the Gibson-street vard, where it is reduced by a process patented by the New England Construction Company, a description of which was given in the report of 1893.

This plant has been in operation for so little time that no judgment can at this writing be passed upon its efficiency from a sanitary point of view. It is designed to provide for the disposal of 20 tons daily, and can undoubtedly take care of a somewhat larger amount. Every detail is well constructed, and the general appearance of the buildings is suggestive of neatness and cleanliness. The actual results obtained will doubtless be of interest, and will appear in a future report.

COLLECTION AND DISPOSAL OF OFFAL.

YEAR.	Total amount collected.	Amount sold.	Amount dumped on scow and towed to sea or wasted.	Per cent. wasted to total collection.	Amount of receipts from sales.	
1891 1	² 42,616 loads.	40,492 loads.	2,124 loads.	5 per cent.	\$30,672 65	
1892 2	46,343 "	30,773 "	15,570 "	33 " "	21,282 82	
18933	46,276 68	30,824 "	15,363 "	30 " "	20,790 03	
18944	42,082 "	37,057	5,025 "	12 " "	26,262 40	

January 21, 1895, New England Construction Company commenced to reduce the offal collected in the Dorchester District, and a temporary agreement was made with the con-

¹²³ Twelve months. Above table does not include contracts in East Boston and Brighton.

⁴ In East Boston, 3,720 loads; Brighton, 1,539 loads; Dorchester, 3,296 loads; total, 8,555 loads, — collected during 1894 are not included in above table. For 1891 and 1892, East Boston and Brighton were estimated at 5,100 loads.

tractor for that district whereby he should continue the collection and deliver all the offal collected at the Gibson-street yard, and that he should be paid for the same on the basis of day-work.

The following table shows in convenient form the full force engaged in the collection of offal alone throughout the entire city:

THE FORCE EMPLOYED.

CITY FORCE.	Hired	Cont	Total.			
	teams.	E. Boston.	Brighton.	Dorch'ter.		
Subforemen	2				1	3
Offal clerks	2					2
Teamsters	65	10	6	3	7	91
Helpers	71	10	6	3	7	97
Dumpers	3					3
Totals	143	20	12	6	15	196

The problem of a speedy disposal of offal without waste has not as yet been successfully solved by any large munic-The attention given to it in the last five to ten years shows to what extent its importance has impressed itself upon the public mind, while in large cities of the interior, like Buffalo, Cleveland, Chicago, and St. Louis, the element of hasty extinction seems more desirable than any utilitarian consideration, and therefore destruction by fire is in great preference in Chicago, at least; yet the fact remains that no satisfactory plant has been established in either of these large cities that could be run either on a self-supporting basis or at a sufficiently low cost to guarantee its permanency, and at the same time be free from public condemnation and criticism. Crematories appear too costly, as a rule, reduction processes too offensive, due either to the use of objectionable reducing agents, or to undesirable odors from both the liquid and solid products of the reduction. The point of collection is generally the seat of complaint, because of failure to dispose of the collections promptly, and to properly wash out the offal wagons.

In some cases the city has had to come to the relief of the contracting corporations, and either contribute both the collected offal and all the animal-matter, or step in and run the whole plant itself. Various experiments have been tried, and are being tried, and progress for the better can be reported; but the successful solution will only come when a truer knowledge of real facts is obtained, and the exact cost of every detail is carefully examined, not under the light of hasty and misleading comparisons between cities, ignoring the many differences in local conditions and requirements that always exist in different localities, but under the light of a comprehensive judgment that is seeking, only on the basis of sound and conservative reasoning, to establish a healthful method of treatment consistent with the demands of a growing population, and utterly void of all glittering suggestions of a sudden and mysterious fortune for an irresponsible inventor. Profit should be of secondary consideration, public health of the first.

REMOVAL OF ASHES.

The removal of ashes, house and store dirt, has been attended to during the year by a minimum force of 207 men and 88 city carts, also by 5 carts with an East Boston contractor, and 9 by the South Boston contractors, 5 carts by a West Roxbury contractor, and 8 carts by the Dorchester contractors. At different times, and especially during the winter months, an additional force of 50 teams and 100 men are employed.

This work shows a constant increase from year to year, as will be seen in the following table, and is an indication of the actual growth of the city:

Amount	OF	Ashes,	House	AND	STORE	DIRT	Removed.
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21110011	1 01	ZAUARA.	209 22	001112	77747	O LOILI	7 A7 LIUJ	L LULI	110 111111
Year.								Numb	er of Loads.
1882									159,197
1883						•		•	169,610
1884				•		•		•	182,642
1885				•					193,734
1886									209,129
1887			•	•					220,186
1888		•						•	233,514
1889			•						227,325
1890	۰								245,730
1891 1									313,464
1892						۰			303,878
1893									320,571
1894		•							326,798

Each load of ashes contains about 40 cubic feet.

¹ Thirteen months.

The following table shows the disposition of this material from February 1, 1894, to February 1, 1895, together with the amount of house-offal and the portion of street-sweepings that were disposed of by the Sanitary Division:

	Amount collected.	Deposited on low lands.	Towed to sea.	Collected by contractors.	Sold to farmers.	
	Loads.	Loads.	Loads.	Loads.	Loads.	
Ashes, house and store dirt.	326,795	164,833	95,779	66,186		
House-offal	50,637		5,025	1 8,555	37,057	
Street-sweepings	30,478		30,478			
Cesspool dirt	1,376		1,376			
	409,289	164,833	132,658	74,741	37,057	

¹ This amount is included in the amount collected, 50,637 of the 8,555; 3,720 loads were collected in East Boston, 1,539 in Brighton, and 3,296 in Dorchester.

Comparative Statement of Number of Loads of Ashes collected during 16 Weeks of the Summer and 16 Weeks of the Winter.

Sumn	ner.		Loads.	Winter. Load	Difference for Winter.
May- 4, 1889, to	Aug	. 23, 1889	60,609	Nov. 30, 1889, to Mar. 1, 1890 82,8	22,257
" 2, 1890, "	. 66	21, 1890	65,239	" 1, 1890, " " 13, 1891 93,6	28,421
" 2, 1891, "	,66	21, 1891	76,625	Oct. 31, 1891, " Feb. 19, 1892 100,2	23,598
Apr. 30,1892, "	66	19, 1892	82,034	" 30, 1892, " " 12, 1893 106,7"	2 24,738
" 29,1893, "	66	18, 1893	91,721	" 28, 1893, " " 16, 1894 106,8	15,130
" 27, 1894, "	66	16, 1894	88,865	" 25, 1894, " " 7, 1895 116,9	28,050

The department in this city insists on a complete separation of offal and ashes. Receptacles containing both are not removed. The necessity of such separation is so obvious that no discussion is necessary. Other cities are recently following the example set by Boston.

The total expenditures of the division on account of offal and ashes, stock, etc., were \$484,012.80.

SEWER DIVISION.

The past year has been one of unusual activity on the part of this division. The city has built with its own labor and by contract 90,802.77 linear feet of sewers, and designed and inspected 24,877.05 linear feet for private parties building under release; making a total for the year of 115,679.82 feet, or nearly twenty-two miles, which is about eight miles more than an average year. The total mileage of sewers now built is 384.72, of which 22.59 miles are intercepting sewers. Many new catch-basins and culverts have been built and old ones repaired. Over twenty miles of sewers have been cleaned and flushed, and 19,652.55 cubic yards of sludge removed from various catch-basins.

Under Chap. 323 of the Acts of 1891, as amended by Chap. 402 of the Acts of 1892, the Board of Street Commissioners had laid out a number of streets, and this division has built, by contract, in eight different streets, all the sewers, catch-basins, and house-drains which will ever be required, carrying the latter out to the curb-line. In the case of some unusually wide streets, it is the custom to build a sewer on each side of the street close to the curb, it having been found cheaper to do this than to build so many long house-drains. The object of building all these drains at one time is to make it feasible to preserve the street surface from the destructive effect of the constant digging of trenches for the laying of drains to connect the houses with the sewers.

The water and gas mains and house connections have been laid in these streets in the same manner and for the same reason.

In designing sewers for a large city, provision must be made not only for house sewage, but also for as much of the rainfall as will naturally find its way into the sewer system. The determination of the amount of house sewage is not complicated, as it is usually taken as about equal to the water supply of a given district. The size of the sewer is made to correspond with the maximum flow that occurs during the six hours of the day when the water supply is the greatest.

The care of the rainfall or the determination of the pro-

portion of rainfall that should be provided for in the sewer design is a much more complicated problem, and has so often been carelessly computed or left out of consideration, that the present generation is obliged to make up for the omis-

sions of former engineers.

While the oldest inhabitant can tell of severe rain-storms that occurred years ago, no definite idea of their intensity can be gathered from the general terms of their description. Not until within recent years have rain-gauges been in use that would determine, except in a crude way, the amount of rainfall in a given time. When one looks for the records locally, he is surprised to find so little data adapted to the

particular locality under consideration.

As far as Boston and vicinity is concerned, we are very much indebted to Mr. Desmond FitzGerald for the most careful records of both the water supply and the rainfall, together with a compilation of all the available data from different sources near this city. His records, taken with an automatically registering rain-gauge, show not only the total rainfall, but what is more essential, the rate of rainfall during the period of heaviest constant fall, which in reality determines the maximum flood discharge in sewers and watercourses. Diagrams of these rainfalls have been published in previous reports of this department. Recent study of this subject by eminent engineers has, through the published records of the profession, thrown much light on this question, and led to a much more intelligent judgment in all constructive design. The difference between the congested city area and the suburban area is fully appreciated, — the one with its impermeable pavements, brick sidewalks, and slated roofs, delivering with great rapidity the entire rainfall to the catch-basins and sewers; the other uncovered, porous in nature, drinking up with avidity the first downfall of rain, until saturated, or the "drainage vehicle" is established, when it then begins to deliver to the sewer system. After taking into consideration all these facts, and determining to a nicety the sizes of sewers, storm-drains, culverts, and overflows, and so regulating the same that no injudicious expenditure of money shall be made by building too large or prematurely, and no injury shall ensue by building too small, the working success of the design is nevertheless largely interfered with, because of the disregard of public good on the part of private owners of land, who fail entirely to appreciate the part in such design that natural water-courses play, and also fail to recognize that the law of equity demands that they be sacredly maintained, instead of being blotted out of sight.

The following statement of facts, as given by the Engineer of Sewer Division, Mr. E. S. Dorr, shows the tendency of the day, and is worthy of the careful consideration of all who have the general welfare and the general ultimate and permanent success of all our public works at heart:

SURFACE DRAINAGE.

"The subject of the proper disposal of the surface water in the suburban districts of the city is one of increasing importance.

While the sewers in the City Proper, East and South Boston, and Charlestown are, in the main, large enough to carry both the sewage and surface water, those of the outlying districts are altogether too small to take the surface water, the areas to be drained being enormously larger than in the districts first mentioned. As the sewer system has been extended, year by year, into these outlying districts, the sizes designed have been but little larger than what was necessary to serve the needs of the district at the time of building. For many reasons this policy has been unavoidable; the size of outlets limits the size of extensions, and scarcity of funds often makes it imperative to build a sewer smaller than good judgment would dictate, in order to reach some community where the public health is endangered for lack of sewerage.

"In many cases it would be not only financially impracticable but would show bad business judgment to sink large sums of money in building sewers large enough for all time, when the development of the district is uncertain or likely to be slow. The result of these various causes is, that the sewer system in Dorchester, West Roxbury, Brighton, and parts of Roxbury, while large enough in general to take care of the house sewage and the street water during light rains, is totally inadequate to carry off the surface water of heavy rains.

"A few instances are here arranged in tabular form to show the discrepancy between the capacity of the sewer and the storm flow from the district which it serves, the first column giving the names of the street in which the sewer lies, the second the capacity of the sewer in cubic feet per second, the third the size of the district in acres, and the fourth an estimate of the storm flow from the district:

WEST ROXBURY DISTRICT.

Street.	Capacity in cubic feet per second.	Acreage.	Storm duty cubic feet per second
Keyes street, Call to South street	45	500	150
Centre street, South to Orchard	33	230	92
Washington street, Keyes to Morton	25	1,000	300
Roslindale Main Sewer, Dudley to Albano	34	670	201
Cohasset to Washington	60	720	216
Dorchester Disc	TRICT.		
Talbot avenue, Bernard to Washington	20	550	165
Granite avenue, Adams street to Neponset River.	25	470	.140
Centre street, Washington street to Melbourne street.	25	950	240
Gibson street, Dorchester avenue to Adams street.	30	1,100	280
Adams, Park, Clayton, and Commercial	30	1,300	350
Brighton Distr	ICT.		
North Beacon street	35	305	110
Washington street, Market to Cambridge street.	6	94	50

"The difference between the capacity and duty is being carried by the water-courses and by running the sewers under a head, often with floodings in consequence.

"The figures given above represent the flow which may be expected from a rainfall at the rate of an inch per hour, and the discharge of storm water from the districts even with this rainfall will increase with the development by 20% and over; heavier rains, which occur at intervals of a few years, will yield vastly more.

"The state of things is growing constantly worse as the city grows, because, as new streets and houses are built, the proportion of impervious surface, from which the rain runs off rapidly, is being increased, causing the rainfall upon any given area to be concentrated and discharged in less time

than in former years.

"The inadequacy of the sewer systems to carry the storm water becomes, therefore, more apparent every year as this change in the character of the surface of the ground goes on. It is also apparent that it becomes correspondingly important to preserve and improve the natural water-courses to serve as carriers of the bulk of these floods, as the alternative to this is practically to rebuild the whole sewer system of the suburban districts upon a larger scale.

"In other words, we shall be compelled to regard our sewers as part of a partially separate system, although they were built and have been used upon the combined principle.

"By confining the sewers to the duty of carrying the house sewage and the discharge from a limited number of catchbasins only, they will prove in most cases large enough, while the natural water-courses, supplemented by surface drains in the streets, will have to be developed into a system for carrying away the storm water.

"It is also important to keep as much surface water as possible out of the sewer system, for the additional reason that all water, whether sewage or rain water, has to be lifted by

the pumps of the intercepting system.

"But however much those whose business it is to care for the city's interest may be impressed with the importance of preserving the water-courses, it is very difficult to impress the general public with its importance. This department is constantly involved in contests with land-owners who are filling up and obliterating these water-courses, heedless of well-defined channels or conspicuous street culverts. And here comes in play that discouraging phase of human nature, in consequence of which men, who are honorable in their dealings with their fellows, seem to be able to make use of a much lower code of morals when they come to deal with that impersonal entity called the city.

"Although it may be explained to them that their course will entail upon the city in a few years an enormous expense for rebuilding the sewers of larger size, and although the law is perfectly clear that no man has a right to obstruct a natural water-course and thereby damage his neighbor, still their personal gain outweighs these theoretical considerations, and they will persist in obliterating the channel, and will bring every political and other influence to bear to the end that the water which should flow in that channel be turned into the sewer, and have in many cases succeeded.

"No one can pretend that the land speculator suffers any

hardship by not being allowed to improve his lot in this manner, because the depreciation in the value of the land caused by the presence of the water-course has undoubtedly been discounted in the purchase price in every transfer through which it has passed, and certainly no one can claim that he has any moral right to the increment of value added thus at the city's expense. Unfortunately, his legal right to it is clear if he can get the thing done, and therein lies the temptation.

"Now, the city's interest is such a vital one in this matter that it cannot afford to remain passive: its course must be more aggressive in the future, or many of the most important of these water-courses will be practically obliterated within a few years, as a perusal of the paragraphs describing their present condition (which will be given later) will

prove.

"The law, as it stands, gives the city no rights which are

at all commensurate with its interest in the matter.

"The city's obligation is to keep a good and sufficient culvert in operation on every water-course which crosses a public street.

"If an abutter upon a water-course starts filling it in, the city can take no action until actual damage has resulted from flooding the street.

"This is the sum total of the city's duties and rights in

regard to these channels.

The city should be given the right, by virtue of its interest, to prevent the obliteration of these channels, by notification and the imposition of suitable fines; this would require the action of the Legislature. This right would serve to keep some kind of a channel open; but even this is not sufficient, as it would result in leaving to every abutter the right to build such a channel as he might desire without any uniformity of size or material, whereas a channel, to be an efficient carrier of water, should be fairly uniform as to size and grade.

"All cities build sewer systems and assess a portion of the cost upon those benefited, instead of leaving it to be done by individuals, by mutual agreement, because that is the only practicable way to secure a working system; there is just as much reason for doing the same thing in the case of a system of surface drainage. In very many cases it is now necessary to improve the channel of water-courses by deepening, widening, and straightening. Before the city can do this work it must at present make formal takings and pay land damages.

"It must then assume the whole cost of the work, as it has

no power to assess. The land-owners meanwhile reap all the benefit, the value of lands abutting upon such a stream being enhanced enormously by such operations, being oftentimes converted from swamps into available building lots.

"If the city's right to secure the preservation of these water-courses could be clearly established by legislative action, as proposed above, then damages could not be proven in case the city made improvements upon them; this being so, the necessity for making takings would in most cases be avoided, by obtaining easements by agreement with the landowners for such locations for the channels as the land-owners might prefer in order to enable them to cut up their land into building lots to the best advantage. If, in addition, the city were given the right to assess such proportion of the cost of improvement upon abutting lands as the Legislature might deem fit, the vexed question of maintaining an adequate system of surface drainage, as a necessary adjunct to the sewer system, would be in a fair way to be settled upon an equitable basis.

"A brief review of the present condition and needs of some of the principal natural water-courses of the city may prove

instructive.

DORCHESTER DISTRICT.

"Tenean brook is the natural outlet for the drainage of a valley of about 800 acres. The advisability of improving its channel in order to afford relief to the overcrowded sewer systems in Park and Gibson streets was discussed in the Report for 1892, page 112 (to which reference is made), and the approximate cost stated as \$125,000, covering the main brook and its northern branch from the outlet at Mill street to Park street near the West End car-houses. An extension of the improvement of about 700 feet would reach and drain the 'Clay Pits,' so called, of which particular mention was made in the report of the committee of the Common Council on Dorchester marsh lands, made January 3, 1895. This would cost about \$12,000 more, making \$137,000 in all. Farther up stream on this northern branch the city has built an expensive storm sewer from Bowdoin street through Geneva avenue and Westville street.

"This improvement will have to be eventually extended down stream to connect with the one first mentioned, and the surfurce water from all streets in the vicinity conducted to it

by a system of surface drains.

"Upon the southern branch of this brook, which reaches the vicinity of Rosemont street, the city has built a capacious culvert on Dorchester avenue, and private parties who are developing a large tract of land west of Dorchester avenue

will provide a channel for it there.

"The southerly branch of Davenport brook flows through the Churchill swamp, to which reference is also made in the report of the Common Council commmittee previously mentioned. A systematic deepening of this brook from its mouth upwards is the only means of draining this swamp.

"On the northerly branch the city has built culverts on Armandine, Bailey, and Fuller streets and Dorchester avenue. Private parties have obstructed and nearly closed this water-course on Armandine, near Washington street, and at Burt avenue; early action should be taken to compel the reopening of its channel.

"The Mattapan brook, which rises near Forest Avenue Station and flows through Mattapan Village to the Neponset river, if improved systematically would improve the sanitary condition of that region and render large areas of swamp

lands available for building purposes.

"The improvement of the upper part of this brook in the vicinity of Capen, Fuller, and Seldon streets is a necessity, owing to the fact that whatever system of sewers is built there, it will be impossible to take into them any of the storm water.

"Passing over the divide into the valley of Stony brook, the brook which flows through the site of the Oakland Garden, claims our attention. The department has had a long controversy with the land-owners here, who have obliterated the channel of the brook and turned its waters into the sewers, to the great detriment of the latter.

"This work will have to be undone. Farther down stream, where this brook is larger, the city has built ample culverts on Spencer street, Wheatland avenue, and Millet street.

WEST ROXBURY DISTRICT.

"Stony brook and its main tributaries need not be discussed further, in connection with this subject, than to state that they are too large to be in danger of obliteration. If funds were available, however, improvements might be undertaken upon them which would amply repay the cost. Upon the Canterbury branch, in the vicinity of the Austin Farm; upon the Roslindale branch, near Florence and Washington streets; Whipple avenue and Ashland street; a large tract between Walter, Weld, and Hewlett streets; also in the vicinity of Anawan avenue and Colberg-street extension, and Beach and Irving streets, — are localities where a comparatively light cost and inexpensive improvement would convert partially submerged marshes into habitable building land.

"The whole valley of the Roslindale branch above the channel built by the City Engineer in 1891, extending across Dudley and Bellevue avenues and along Belgrade avenue to Central Station, needs attention.

"This locality now has sewerage, and is being rapidly built up, but the present condition of the brook must lead to damp cellars, flooded lands, malaria and fever, if not bettered

before long.

"The brook which rises south of West Roxbury Station and crosses the Dedham Branch R.R. near Spring Street Station needs urgently a systematic deepening and straightening, as the premises of the inhabitants of this valley are flooded by it every winter; but as much sewage finds its way directly and indirectly into it, and as it flows into Charles river at a point above where several towns and cities take their drinking water from the river, a system of sewerage should precede its improvement, for this sewage is now practically destroyed before reaching the river by the natural processes of aeration and sedimentation during its slow progress through reedy marshes.

BRIGHTON DISTRICT.

"In this district more abuses of the natural water-courses, in the way of obstruction, obliteration, and connection with the sewers, has taken place than in any other part of the city. The most important of these is the brook near Shepard and Winship streets, which flows northerly across Washington and Cambridge streets, near their junction, and North Beacon, near Arthur street; it then crosses Everett street at the corner of Braintree street, passes under the Boston & Albany Railroad, Lincoln and Franklin streets, in a culvert of considerable size. From Franklin to North Harvard streets the little that remains of the brook is carried in an absurdly small channel, consisting of 24 and 18 inch pipes; from North Harvard street to the river it flows in an open channel, crossing Western avenue in a good stone culvert. It is taken into the sewer in Shepard street, causing the sewers in this street and Winship street to back into the cellars every spring, and during heavy storms at other seasons. It is taken in again at Cambridge street, overcharging this sewer badly. Again on North Beacon street, near Arthur street, it is turned into the sewer. On Everett street, at the corner of Braintree, it is again connected with the sewer, and the remnant is carried in a pipe through the cellars of several dwelling-houses. A culvert was built at the demand of this department through the retaining-walls and embankment of the approach of the new Everett-street bridge over the

Boston & Albany Railroad, but is inoperative. At this point the only way of restoring the brook channel seems to be by building a capacious storm sewer. The importance of establishing an uninterrupted channel for this brook may be seen from the facts that its water-shed, at North Beacon street, for instance, is three hundred and five acres, yielding a flow of one hundred and ten cubic feet per second from storms of moderate intensity in the present state of development of the district, and probably one hundred and seventy-five cubic feet in heavy storms, to say nothing of the increase of flow, which must come with the future development, while the capacity of the main sewer in North Beacon street, which is the only channel operating at present freely,

is only thirty-five cubic feet per second.

"Between North Harvard street and Western avenue the channel of the brook runs through the Rena-street district, so called, comprising about sixty acres. On account of its proximity to the Metropolitan main sewer, a part of this district has been sewered upon the separate system, the house sewers being connected with the Metropolitan sewer and the surface drains with the brook. Another portion, including Rena, North Harvard, Bayard, Weitz, and Kenneth streets, has no surface drains as yet. As the connections of these house sewers with the Metropolitan sewer had to be made through regulators, at the demand of the Metropolitan Drainage Commission, these sewers have no means of relief, except by backing up into the cellars, whenever the water in the Metropolitan sewer rises high enough to cause the regulators to cut off the connection. Surface drains will have to be built, connecting with the brook, and serving as relief overflows for the house sewers, making it absolutely necessary for this portion of the brook channel, at least, to be preserved.

"It will be seen from the foregoing description that this important brook is practically obliterated in numerous places, and measures should be taken by the city promptly to reopen its channel; for, if it is not done, the city will be forced to build an enormously expensive storm sewer to take its place, from North Harvard street to Shepard street, a distance of about nine thousand feet, at an early date.

"A drain, formerly a brook channel, tributary to the main brook, comes from the Boston & Albany stock yards, and joins the main brook at Everett street, close to the railroad. This carries all the foul washings of the stock yards, and causes a nuisance in the channel of the main brook north of this point. This should be connected with the Everettstreet sewer, as its contents are as foul as any sewage; but first the main brook should be disconnected from the sewer

and restored to its proper channel.

"The tract of land bounded by North Beacon, Murdock, Sparhawk, and Market streets is laid out in streets, and has some sewers, built years ago by private parties. These are too near the surface to serve as sewers, but may be utilized as surface drains. A brook formerly flowed from this land across Market street, near Faneuil street, and down to the pond near North Beacon street at the iron bridge, and a portion of a good walled-up channel may yet be seen, but the remainder is obliterated. If this channel is not kept open the surface water from this area will all have to go into the Market-street sewer, and thence into the North Beacon-street sewer, aggravating the overcrowded condition of that sewer.

"At Oak square there is a brook which runs across the square from Tremont street under the West End car-houses and through private land between Faneuil and Washington streets, crossing Faneuil street, and running through Brooks

pond to join the main brook from Chandler's pond.

"A tributary to this brook, which drains all the catch-basins in Oak square, and will afford a relief overflow to the Washington-street sewer, has been cut off by the building of the foundations of the West End car-houses, and will have to be restored.

"The main brook from Chandler's pond is too large to be easily obstructed, and has had culverts of ample size built upon it by the city at Parsons, Hobart, Faneuil, Oakland, and Lake streets."

The desirability of systematically deepening and improving waterways like the above-mentioned, beginning at the outlet and working toward their source, is unquestionable, and should be carried out before the adjoining land is wholly cut up into house lots and largely built upon, as then it would involve expensive land takings and serious claims for damage.

It is equally plain that the city should not be forced to take within its street limits a diverted waterway, and thus lengthen its course, and necessitate a more costly construction. Other cities are taking up this question, with a view of utilizing the valleys of prominent streams as a part of their park system, after the manner of our own Muddy River Parkway, with its banks terraced and planted with shady trees and flowering shrubs, crossed by well-designed stone-arched bridges, till the whole effect is most charming to those who admire landscape. Where necessary, the lowering of the stream-bed might be the means of transforming worthless stretches of land into the choicest building

lots. The former City Engineer of Newton, Mr. A. E. Noyes, and Mr. E. A. Buss, in making a joint study of this question, suggest that if legislation is commendable in establishing a Board of Survey for the city of Boston, especially authorized to designate the locations and grades of streets for the best public good, and to prevent owners of property from making further departure therefrom, then there is much more ground for seeking legislative authority for a city to lay out and determine the size and location of its surface drains, and prevent interference of the same by property-holders, under fear of penalty.

Whatever course is taken, cheap and temporary expedients for private interests only should be wholly discountenanced.

STREET-CLEANING DIVISION.

STREET-SWEEPING DISTRICTS.

District No. 1. - West End.

This district includes that portion of the City Proper that is bounded on the west and north by the Charles river, on the east by Charlestown and Washington streets, on the south by School and Beacon streets and Boston Common.

District No. 2. — North End.

This district includes that portion of the City Proper bordering on the Charles river and harbor front that lies east of Charlestown and Washington streets, and north of Central and Milk streets.

District No. 3. — South End.

This district includes the southerly portion of the City Proper (business section), and is bounded on the north by Central and Milk streets, on the east by Fort-point channel, on the south and south-west by Kneeland, Lincoln, Harvard, and Utica streets, and on the west by Washington street.

District No. 4. — South End.

This district includes the portion of City Proper and Back Bay that lies southerly from the Public Garden and Common, and extends as far as Dartmouth and Dover streets, and is bounded on the west and north by Beacon and School streets, easterly by Washington, Kneeland, Lincoln, Harvard, Utica streets, and Fort-point channel, southerly by Dover, Berkeley, Columbus avenue, and Dartmouth streets.

District No. 5. - Back Bay and South End.

This district includes all of Back Bay and South End between Charles river and South bay from Dartmouth and Dover streets on the north, to Massachusetts avenue, Hammond and Hunneman streets on the south.

District No. 6. — South Boston.

District No. 7. — Roxbury.

District No. 8. — Brighton.

District No. 9. - East Boston and Charlestown.

Owing to the constant growth of Dorchester and West Roxbury, the work done by occasional visits of sections of gangs from the adjoining districts was no longer sufficient; but, on account of the small appropriation, no additional force could be organized. These districts, however, are constantly cared for by the Paving Division force, thus saving the expense of extra superintendence and headquarters.

The following table shows the average force employed

during the year:

District.						age No mploye	
Office							4
1, West End.							32
2, North End.				•			32
3, South End.				. /			32
4, South End.							32
5, Back Bay .				4			31
6, South Boston		0				٠	32
7, Roxbury .						•	28
8, Brighton .							
9, Charlestown and	l East	Bost	on				27
Yard and stable							14
Push-cart patrol	•	٠.		٠		٠	39
Total .	٠	0					303

The above-mentioned force use in carrying out the work

of the division the following plant:

Three 3-horse machines, 19 double sweeping-machines, 21 single sweeping-machines, 11 water-carts, 90 street-carts, 100 horses (owned by the division), 14 asphalt-scrapers.

Eight of the above horses are driving-horses.

The push-cart patrol use:

Fifty-nine push-carts, 63 extra barrels, 3 street-carts (steel), 3 horses (all hired). Of the 59 push-carts, 40 are in daily service.

In addition to the above-mentioned carts, the division

hires about 33 extra teams.

The following table shows the number of loads of streetsweepings removed each year during the last thirteen years:

Year.						No. of cartloads.
1882	•			•		52,381
1883		. *			,	58,272
1884						62,222
1885						 61,455
1886			•			 59,875
1887						68,990

Year.						No. of cartloads.
1888	٠	•				68,010
1889		•	. •	•		70,476
1890						70,449
1891, 12	e mo	nths				87,113
1891, 13				. •		91,425
1892				`.		106,829
1893						110,496
1894					•	95,478

STREET-CLEANING.

With a gross expenditure of \$307,113.16, this division has cleaned 10,432.75 miles of streets, removing 95,478 loads of street-dirt; has also cleaned 2,175.65 miles of paved gutters on macadamized streets, including special work on crossings, maintained 16 dumping-stations, removed excess of snow from pavements and crossings, paid special attention to the collection and removal of leaves in the fall of the year, maintained a paper-patrol in freezing weather and a push-cart patrol in the retail district throughout the year; and, besides making necessary repairs to its plant and purchasing the new stock needed, made a disposal at sea of some 30,766 loads of street-dirt. The average cost of sweeping streets, including supervision, labor, yard, and stable expenses, pro rata of dumps, and removal, was \$15.61 per mile.

If the gross expenditure, including stock and all miscellaneous expenses, be divided by the total mileage of the city, which is 452 miles, the outside expenditure per season per mile of street is found to be \$679, which is very low as

compared with other cities.

The results of the push-cart patrol system have been most satisfactory, and an extension of the routes is surely warrantable. Fifty thousand two hundred and eighty

barrel-loads were taken up by this force alone.

The public waste-barrels, located in the immediate vicinity of various fruit stores, inviting the deposition of refuse which would otherwise be thrown into the street, have found favor with the public, and much littering of the street is

thereby avoided.

District 8, or Brighton, was wholly taken care of by the Paving Division; also, macadamized streets in other outlying districts were scraped by this division, and 37,557 single and 1,948 double loads of street-scrapings were removed. After a severe snow-storm, the paving force is called to the aid of the street-cleaning force, and the cost of snow-removal is reported in Appendix B.

GENERAL REMARKS.

The general term "street-cleaning" appears to be used in common discussion in a very loose way, and very misleading comparisons and erroneous conclusions result. This has been more apparent of late, as the subject has been of more than ordinary interest to the public for the past few years, and receives a correspondingly increased consideration by the press everywhere. In these comparisons the cost quantities set over against each other under the simple term "street-cleaning" do not apply in different cities to the same or analogous work.

It starts with (1) sweeping streets only; it then grows to include (2) the removal of the dirt or road detritus to the dumps; then gradually extends its scope by the following successive steps: (3) collecting and removing ashes, store-dirt, house-dirt, and kitchen refuse and garbage; (4) final disposition, either at sea, by incineration, or some rendering process; (5) collecting and rendering dead animals; (6) cleaning of alleys and private ways; (7) cleaning of catch-basins, cesspools, and vaults, and removing night-soil; (8) removal of snow; (9) scraping macadamized streets; (10) street-

sprinkling.

Each of the above items involves an expense varying in amount according to local conditions and laws. Collecting ashes, for instance, may figure but \$2.00 per mile of street, while scraping a heavy macadamized street may cost \$100 Then, too, some cities report that a certain number of miles of streets are kept clean throughout the year, which in some cases is a fair percentage of the city mileage, and in others it is made to equal the total mileage. Other cities keep a record of streets swept or cleaned each day, and at the end of the year report the accumulated amount, or total miles actually cleaned. It does not require much mathematical calculation to ascertain which method gives the best showing for the least amount of expenditure. Local conditions vary greatly. Some cities are almost wholly paved, few, like Boston, are mostly macadamized or gravelled. Some have convenient dumps, others necessitate long hauls. The price of labor varies, and the hours of labor are not always restricted. Public sentiment demands more in one city than in another, so that the degree of cleanliness satisfactory in one latitude would only be a source of disgust in another. Mud on a crossing not over a boot-sole would raise a protest in some of our fashionable quarters, while in some of our Western cities, less whimsical by nature, no fault is found until there is "mud enough to bog a duck."

The history of the last five or ten years shows that the public demands a higher service, and the refinement of the present day asks for a greater opportunity for personal comfort and good health, and public opinion sanctions an increased expenditure. The amount spent on sanitary cleanliness was never so great as it is to-day in all our large cities, New York, for instance, about doubling the amount used five years ago. This desire for cleanliness has been spreading from city to city, until each one has its organized force with modern auxiliaries and appliances, vying with each other in the praiseworthy effort to banish the filthy and unsightly refuse from our public thoroughfares, and thus make them compare favorably with the streets abroad.

The time has now come when the official in charge must not study as to how much money he can spend for this work in a single year, but how much greater area he can keep truly clean without increasing the expenditure. Results without extravagance are really what is to be sought. In other words, the problem is resolved into this: By what methods can refuse of all kinds be turned to revenue or usefulness, and absolute waste be reduced to a minimum?

This can only be accomplished by a careful and painstaking process of differentiation or separating the products of street collections, and diverting each to a sphere of usefulness consistent with its character. Just as the material of a gravel bank becomes more useful and of wider adaptability to constructive requirements by a simple process of running it through a system of wire screens of varying mesh, until stones of a uniform size and sand particles are each collected together to be used for widely different purposes, so our refuse separated into its different elements may be turned to some good account, each being appropriated to its most valuable purpose, the clean ash its bed of filling, the rag its paper-mill, road detritus its fertilization market, and house-offal its digestor, wherein it is further separated, vielding both animal and vegetable products of varying worth. This separating process must begin with each householder, and hence the requirement that different receptacles must be provided and used, one for street-dirt, another for ashes, and yet another for house-offal. simple work of street-cleaning in its broad and sanitary sense must then resolve itself into a machine-like march of an organized force so controlled that, without interfering with the business use of streets, and without waste of time by conflicting effort, it shall take captive every scrap of filth and refuse legally left within its reach, and without delay or incidental annoyance remove the same to the nearest point of collection, from which its final useful disposition can be made.

Its success must depend largely upon public cooperation with the municipal authorities, and individual effort throughout the community to refrain from carelessly allowing any of its waste dirt to be scattered about on any public highway.

SMOKE NUISANCE.

Argument is not necessary to convince the citizens of this city or any city that soft-coal smoke is the cause of untold injury to health, to the beauty of our architecture, to the cleanliness of our office furnishings and records, and a destructive agency of marked efficiency within the business district in its pernicious contact with the finer textile fabrics,

and general merchandise as well.

Theorizing as to the remedy is not what the people want, but a practical, energetic, and effective activity, directed by proper law and ordinance, that shall forthwith demand compliance with such regulations as will abolish existing nuisances, and prevent new construction from entirely disregarding this whole question in the laying out of new plant. Such has been the plan of operation of this department. A résumé of the work of the year shows some good results, not so much in the multiplicity of the so-called devices, as in the actual marked reduction of the percentage of "dense, dark smoke" emitted from various stacks, as shown by recent observations as compared with those taken upon the same plants a year ago. Owners of estates have been more liberal in their desire to contribute to the general good of the community by the purchase of better and more smokeless fuels; engineers have been more stringent in their orders to the firemen, and the firing itself has not been so often intrusted to the elevator boy or some other equally irresponsible employee.

The scarcity of good coal in this vicinity last winter, due to the great strike among the miners, had a marked effect upon plants in this city, complaints coming from stacks that

had formerly given no trouble.

Nothing has been more apparent from the result of the observations than the extreme lenity of the present law, allowing as it does that a stack may belch forth dense, dark smoke for fully one-fourth of the time. The history of the movement here only shows that the terms of the law should be prescribed by the community at large which is offended against, rather than by the offenders themselves. City

Document No. 81 of 1893 shows that the consumers of soft coal themselves were on the alert to see that the movement did not become too stringent in its final recommendations.

Chapter 353 of the Acts and Resolves of 1893 is still in force, but it is hoped that the present Legislature will modify it, as there is great difficulty in securing conviction in court, a warrant having been refused on one of the worst cases of violation as shown by observations of the inspector.

During the past year 188 complaint notices have been served and 184 inspections made; making a total to date of

319 notices served, and 300 inspections completed.

The inspections may be classified as follows:

With patent device attached		38
Now considering the adoption of some device		29
Wing walls		5
Using hard coal		32
Using shavings or similarly offensive fuels.		35
Claim compliance with the law		150
Supplied with device of their own design .		4
Ready to adopt a satisfactory device		7

Devices in use are:

1st. Down-draft Furnaces, "American Down-draft."—Nevins estate, 78 Chauncy street; Lyceum Theatre, Washington street; Nevins Estate, 66 Chauncy street; Smith-Carleton Company, 79 Boston street.

"Hawley Down-draft." - Brookline Gas Light Company,

Allston; West End Power Station, Cambridge.

2d. Automatic Stokers, "Roney Automatic Stoker."— State House Extension, Mt. Vernon street; Boston Elec-

tric Light Company, Boston street.

3d. Furnaces with Hollow Walls (to admit heated air), "Jarvis Setting." — Edison Illuminating Company, Atlantic avenue; Edison Illuminating Company, Head place; Boston Electric Light Company, Condor street, East Boston; E. Hodge & Co., 160 Liverpool street, East Boston; Boston Fire Brick Company, 394 Federal street; J. Roessle, 60 Pynchon street, Roxbury; L. Prang & Co., 286 Roxbury street, Roxbury.

"Smith Setting." — J. R. Alley & Sons, 123 Heath street, Roxbury; Furbush & Co., Rutherford avenue, Charles-

town.

"Jones Economic Furnace." → Crawford House, Brattle street; Boston Electric Light Company, Gilbert place; Boston Lead Works, Hampden street; Boston & Maine Railroad, Minot street; Boston Belting Company, Elmwood street.

4th. Steam Jet, "Andrews Hot-Air Device." — Nahum Chapin, Water street; W. Smith & Co., Marginal street, East Boston; A. T. Van Nostrand, Alford street, Charlestown; Grand Hotel, 417 Columbus avenue.

"Standard Smoke Consumer." — B. H. Murray (Drake's Saw-mill), Border street, East Boston: Jordan, Marsh, & Co. (wholesale), corner Bedford and Lincoln streets: Houghton & Dutton, corner Tremont and Beacon streets.

"Bartlett & Hayward Patent Damper" (perforated bridgewall.) - New Court-house, Pemberton square; Brown, Du-

rell, & Co., Kingston street.

"Fyfe's Deflector" (wing walls). — Homocopathic Hospital, corner Concord and Albany streets; Page Bros., 231 Cambridge street.

"Whitfield Grate." - Boston & Albany Railroad Grain

Elevator, Chandler street.

Of the thirty-two plants reported as using hard coal, eight have since gone back to soft coal, mainly on the ground that they needed greater steaming capacity. Several are using soft coal and hard-coal screenings, and claim that they can keep within the limits of the law by so doing.

All of the above-mentioned inspections have been subjected to mechanical study, from which the following defects

were made evident:

Chimney too small		, .				66
						· 21
Smoke-flue too small .				۰		9
Number of tubes small .						1
Forced at times, especially in	wint	er.				42
Boilers very old			•	•	•	4
Chimney and smoke-flue small						
70 11						
Boiler heated by waste gases						1
Insufficient data			•			1
No apparent defect			•			151
Boiler overworked Boiler heated by waste gases Insufficient data			•	•	•	1 1 1

Circulars in regard to the selection of fuel and care in firing have been issued from time to time. A disposition to comply with the law and with the department regulations has been generally evident, showing that our community is made up mainly of law-abiding citizens. Even when the strike among coal operatives was on in April, the effects of which were very noticeable in June and July, and complaints began to multiply, investigation showed that, while inferior grades of bituminous coal were being shipped to this port in large quantities, owners were for the most part willing to subject

themselves to a little larger expense, and mix some hard coal with the soft, to mitigate in some degree the increased nuisance. On July 10 six additional observers were given to the inspector, to aid in taking records of various stacks. Later, this number was reduced to two men, who have covered the city regularly by districts, and have been keeping the department informed of any unusual appearance of smoke emission.

Some fifty set observations have been made on various stacks, lasting from two to sixteen hours each. These showed per cents. of dense, dark smoke varying from 5.1 to about 60, with one abnormal one of 78.8 per cent. Plants well equipped for complete combustion showed from 10 to 20 per cent. A few well-regulated and well-proportioned plants without device managed to keep their smoke from 20 to 26 per cent.

NEW LOCATIONS.

On July 24 a standing objection was filed with the Survey and Inspection of Buildings Department against the granting of permits for new boilers, without the applicants for locations first satisfying this department that they would endeavor to comply with the law, either by the adoption of a smoke-consuming device, or the use of a smokeless fuel.

In practice, the following formalities are observed before the applicant can receive permission to locate a new or relocate an old boiler-plant. He first makes application to the Inspector of Buildings, and is informed that before permission can be granted, the consent of the Superintendent of Streets must be obtained.

The Inspector of Buildings then fills out the upper portion of the following blank and sends it to the Superintendent of Streets:

(Form A.)

CITY OF BOSTON.

OFFICE OF INSPECTOR OF BUILDINGS,

To the Superintendent of Streets: You are hereby notified that	Boston,	
tion for location of a boiler at No this date.		

OFFICE OF SUPERINTENDENT OF STREETS, No..... ROOM 47, CITY HALL, 189 To the Inspector of Buildings: You are hereby notified that the above-named applicant has signified his intention of meeting the requirements of the Superintendent of Streets relative to the prevention of smoke, either by the adoption of a smokeless fuel, or of a satisfactory smoke-consuming permit Superintendent of Streets. On receipt of this notification, the Superintendent of Streets fills out the following blank and sends it to the applicant, who must then appear before the Superintendent of Streets to obtain his sanction of the proposed boiler location. (Form B.) STREET DEPARTMENT. No. CITY HALL, Boston, 189 OFFICE OF THE SUPERINTENDENT, ROOM 47. $M \dots$

DEAR SIR: You are herewith notified that this department objects to the granting of your petition for leave to locate boiler at as per your application on file in the office of the Inspector of Buildings, unless the same provided with an effective smoke-consuming device.

Will you please call at this office in reference to the matter, and oblige,

Yours truly,

Superintendent of Streets.

Pending the granting of the location, an inspection is made of the proposed boiler plant, and if the Superintendent of the Street Department finds that there is reasonable probability that it will comply with the law and ordinances, the applicant is required to sign the following blank, which states the nature of the boiler plant, coal to be used, etc.:

	(Form C.)	No
	Boston,	, 189
Application for Location	n of Boiler:	
by	·	
of		
at		
To the Superintendent of I hereby agree to con	of Streets: mply with the statute laws an	d city ordinances.

and the requirements of the Superintendent of Streets, relating to the prevention or the suppression of smoke, and propose to adopt a device for said purpose, within days from date, and will see that due care is continually exercised both in the selection and use of fuels, to the end that the amount of smoke emission and nuisance shall be reduced to a minimum.

The lower half of Form A is then filled out with "objections waived," and it is then returned to the Inspector of Buildings, who may then grant the location in the regular manner. It will be seen that by this agreement (Form C), signed by the applicant, the Superintendent of Streets obtains control over the boiler plant so far as smoke nuisance is concerned, and, in case this agreement is afterwards violated, the permission to operate such a boiler plant may be revoked by the Inspector of Buildings, through request of the Superintendent of Streets.

On the other hand, if the Superintendent of Streets is not satisfied, after investigation, that the proposed boiler plant will comply with the law relating to the smoke nuisance, the lower half of Form A is filled out with "objections renewed." This is then returned to the Inspector of Buildings, and the application is thereupon denied. In such a case the applicant, as a last resource, may apply to the Board of Appeal on Boiler Locations, and the decision of this Board is final. This Board of Appeal, as now constituted, consists of the present Superintendent of Streets; the Chairman of the Board of Fire Commissioners, Robert G. Fitch; the Chairman of the Boston Board of Health, Samuel H. Durgin, M.D.; and Messrs. George R. Swasey, Arthur H. Everett, and William H. Sayward.

Under the foregoing arrangement, ninety-two notices of applications have been received from the Inspector of Buildings. Of this number, in fifty-six cases objections have

been waived on account of being mainly hot-water heaters, constructed so as to burn hard coal only; in thirty cases, the applicant has shown a satisfactory guarantee that proper precautions are being taken, and has signed the record-book, agreeing to conform to all necessary requirements. Three cases are still open and await the results of further inquiry.

While the law is not at present as stringent as desirable, there is no doubt that many owners of both large and small plants show a decided willingness to comply with such requirements of the department as will, without unreasonable cost, abate the nuisance, and thus contribute to the general comforts and good health of the community; but greater stringency of law will be required to enforce action upon parties who are unwilling to be subjected to any expense whatever in the matter, but lean wholly to the item of economy, and are loath to incorporate any change, unless it can show a saving in their running expenses. In many plants the local conditions are such that the element of economy can readily become a factor of reasonable promise, but if those conditions will not admit of changes in the direction of economy, then it is surely the duty of the owner to offset his unavoidably cramped conditions with the adoption of some relieving expedient, even though it may at the same time subject him to a slightly increased expense.

Conclusion.

Allusion has been made in the foregoing report to the most important portions of the work of the year, but the limited space allotted to an executive report of this kind precludes the mention of numerous other features that would bear discussion.

In the appendices which follow, however, detail items may be found, arranged in convenient form, of such street and sewer construction as seemed of sufficient importance to merit special mention.

The table of former superintendents and document numbers of the annual reports at the end (Appendix F) will be found of convenient reference for general use in connection with the history of department work in past years.

Respectfully submitted,

Henry B. Wood, Executive Engineer.



STREET DEPARTMENT.

ORGANIZATION, 1894.

Central Office

Room 47, City Hall.

HENRY H. CARTER, Superintendent of Streets.
(Until December 8, 1894.)

CHARLES R. CUTTER, Acting Superintendent. (From December 8, 1894, to January 14, 1895.)

BERTRAND T. WHEELER, Superintendent.
(From January 14 to the present time.)

HENRY B. WOOD, Executive Engineer.

JOHN W. McDONALD, Purchasing Agent.

BRIDGE DIVISION.

14 Beacon Street.

JOHN A. McLAUGHLIN, Deputy Superintendent. FREDERICK H. SPRING, Chief Clerk.

PAVING DIVISION.

Room 41, City Hall.

CHARLES R. CUTTER, Deputy Superintendent. (Until January 24.)
DARIUS N. PAYSON. (January 24 to the present time.)
BENJAMIN B. TREMERE, Chief Clerk.

SANITARY DIVISION.

12 Beacon Street.

PHILIP A. JACKSON, Acting Deputy Superintendent.
M. J. MURRAY, Chief Clerk.

SEWER DIVISION.

Room 44, City Hall.

HENRY W. SANBORN, Deputy Superintendent (ex officio, Engineer Improved Sewerage).

FRANK H. RICE, Chief Clerk. Engineer's Office, 12 Beacon Street. E. S. DORR, Engineer in Charge.

STREET-CLEANING DIVISION.

14 Beacon Street.

PHILIP A. JACKSON, Deputy Superintendent. THOMAS McLAUGHLIN, Chief Clerk.

BOSTON AND CAMBRIDGE BRIDGES.

HENRY H. CARTER, Commissioner for Boston (ex officio, until December 8, 1894)

CHARLES R. CUTTER. (Acting Commissioner from December 8, 1894, to January 14, 1895.)

BERTRAND T. WHEELER. (Since January 14.) WILLIAM J. MARVIN, Commissioner for Cambridge.



APPENDIX A.

REPORT OF THE DEPUTY SUPERINTENDENT OF THE BRIDGE DIVISION.

14 Beacon Street, Boston, February 1, 1895.

MR. B. T. Wheeler, Superintendent of Streets:

DEAR SIR: I herewith respectfully submit the following report of the acts and expenditures of the Bridge Division from February 1, 1894, to January 31, 1895. There was allotted for the care, maintenance, etc., of the bridges during this period the sum of \$125,000, which by reason of the opening of L-street bridge to public travel, and in consequence of necessary work performed on Charles-river bridge that it might be used as a thoroughfare, was found to be insufficient to the amount of \$5,787.21. Thus the total sum regularly expended on the bridges and charged to this division was \$130,787.21.

The total number of bridges in Boston, not including culverts, is one hundred and twelve; four of these, viz., Harvard, Canal, Prison Point, and West Boston bridges, all connecting Cambridge, are in the care of two commissioners, one of whom is appointed by the city of Boston and the other by the city of Cambridge. The remainder are under the supervision of this division, and are thus tabulated: Thirty-four are wholly supported by railroad corporations, and seventy-eight are supported wholly or in part by the city of Boston. Included in this number are twenty-three tide-water bridges, provided with draws. The increase of two bridges consists of one at Audubon road, over Brookline branch of the Boston & Albany Railroad, and Florence street, over Stony brook.

Of the tide-water bridges there are eleven of great importance, viz., Meridian street (horse power), Chelsea North and Chelsea South (both steam power), Malden (man power), Warren, Charles River, Congress, L-street, and Broadway (all steam power), Federal and Down streets (both electricity)

Federal and Dover streets (both electricity).

The condition of Malden, Charles-river draw, Broadway, and Congress-street bridges is unsatisfactory and require most careful attention.

Charles-river bridge was closed to team travel July 18, 1894, at 1.45 P.M., as it was considered dangerous. Extensive repairs, under the supervision of the City Engineer's Department, were performed under contract, and the bridge was reopened to team

travel on October 16, 1894, at 9 A.M. The draw, however, is still in very bad shape, as its foundation is much decayed.

Chelsea-street bridge is in process of rebuilding and will be completed in a few weeks. Dover-street bridge has been completed and is in running order, giving complete satisfaction. L-street bridge

has also been opened to public travel during the year.

Embodied in the report will be found a detailed statement of the expenditures and a description of the work performed on each bridge; also a tabulated arrangement of those bridges supported wholly or in part by the city of Boston; widths of draw openings, widths of bridges, roadway, and sidewalks; kind of pavement used; number of draw openings made for navigation, and a census of traffic taken on some of the most important bridges, October 8, 1894, as a comparison with that taken in April, 1891, June, 1892, and September, 1893.

The inland bridges have been carefully looked after, and special effort has been made to keep them safe and clean. They have been thoroughly swept each week and scupper-holes have been kept free and clear. The operatives of the tide-water bridges have performed their duties in an efficient manner and have kept their piers and premises in a safe condition, and no accidents have been reported that could in any way be charged to the negligence

or carelessness of the draw-tenders or their assistants.

The material used for repairs has been of good quality, and the delivery of the same in the different districts by those having the contracts has been prompt and efficient, causing no delay for the proper performance of the work.

As formerly, the same care has been exercised to keep on hand duplicate sets of gearing, and many times during the year this

precaution has lessened public inconvenience.

SPECIAL WORK.

The report contains a description of work performed and expenditures on several bridges, money for which was provided from special appropriations.

The total amount of money so expended and charged -

\$33,066.55.

Of this sum, for contract work, material, and repairs, which could not be performed by our men -\$27,729.33.

The balance was directly beneficial to our own bridge mechanics

--\$5,337.22.

PUBLIC LANDING-PLACES.

The following public landing-places have been built by the city, and are maintained and controlled by the Street Départment:

Charles-river Bridge. — Size, 40×60 . Built in 1890. Moored from city's property.

Essex-street Bridge. — Size, 9 × 23. Built in 1890. Moored

from city's property.

East Boston, Public Landing. — Size, 18 × 30. Built in 1893. Moored at dock of East Boston Dry Dock Company. Dock and flats leased at \$200 per year.

Commercial Wharf. — Size, 30×50 . Built by M. F. Sullivan; contract dated January 1, 1892. Moored at dock of Commercial Wharf Corporation. Dock and flats leased November 30, 1891, at \$1,000 per year.

Federal-street Bridge. — Size, 20×35 . Built by M. F. Sullivan,

October 26, 1892. Moored from city's property.

Cable-Houses.

The following is a list of cable-houses on bridges in charge of this division:

New England Telephone and Telegraph Company: Charles-river bridge Chelsea, south bridge Congress-street bridge (Erected in 1882.)	1 house.
American Telephone and Telegraph Company: Federal-street bridge (erected in 1890).	1 house.
West End Street Railway Company: Federal-street bridge	
New England Telephone and Telegraph Company: Dover-street bridge (Erected in 1894.)	2 houses.
Postal Telegraph Cable Company:	2 houses.

(Erected in 1894.)
Very respectfully yours,

John A. McLaughlin,

Deputy Superintendent.

FINANCIAL STATEMENT.

REGULAR APPROPRIATION.

Tello Chille 111	LICOI ICIALI.	ro T4 e			
Appropriation, 1894-5				\$125,000	00
Transferred from Paving Divis	sion, Dec	eember	6,		
1894				5,000	00
Transferred from Paving Divis	sion, Jar	nuary	25,		() -1
1895			٠	787	21
Total				\$130.787	91
				0100,101	4.1
Amount of expenditures from Fe					
January 31, 1895				\$130,137	21
Transferred to City Clerk Depa					
31, 1894				650	00
				\$130,787	21

EXPENDITURES.

Administration.

220000000000000000000000000000000000000	
Office expenses:	
Printing	00
Stationery and postage	
Office books	
Engraving plates, etc., annual report . 81 8	
Requisition book, purchasing agent . 7 6 Envelopes, Superintendent of Streets . 46 8	
Envelopes, Superintendent of Streets . 46 8	
Book of warrants	
Repairing books, etc 50 %	
Atlas, Dorchester	
Telephone	00
Sundries	37
	- \$691 47
Salaries of Deputy Superintendent, Clerks, and Mes	S-
senger	. 6,394 00
Salaries of General Foreman and two District Fore	e- '
men	
Salary of Clerk of Committee on Streets an	d
Sewers, nine weeks	. 258 84
Travelling expenses	. 85 00
Sewers, nine weeks	'a.
horse	. 576 00
110150 6 6 4 4 6 7 7	. 010 00
Amount expended, administration	© 13 066 31
Amount expended, administration	. \$10,000 01
Total Regular Expenditures.	
Expanditures administration	. \$13,066 31
Expenditures, administration	. 910,000 01
on tide-water bridges	. 96,805 80
on initial bridges	. 6,712 36
on inland bridges	4,834 47 8,718 27
south	
Total amount expended for the year, February 1	ι,
1894, to January 31, 1895	. \$130,137 21
INCOME.	
The amount of hills deposited with the City Co.	1
The amount of bills deposited with the City Co	1-
lector during the year was as follows:	
Work done by this division	\$08 69
Sale of old material	φυσ 02
Sale of old material	1 250 00
item of fand and buildings	. 1,550 00
Total	Ø1 =00 00
Total	. \$1,598 62

		TH	DE-W	7AT	ER B	RID	GES.			
Broadw	ay bi	ridge	(ove	r Fo	ort-Poi	nt Ch	annel)).		
Sheathed d	raw a	nd ro	adwa	y, p	ut in 1	new	section	of		
iron fenc	e, put	dow	n nev	v w	heel g	uards	, repa	ired		
piers and		rways	, repa	irec	l engin	ies, n	nachine	ery,		
latches, e										
Carpenters					\$2,101	23				
Painters					15	75				
Lumber	•				1,478	24				
Nails .					115	00				
Painters Painters Lumber Nails Ironwork Repairing e Hardware Paint stock Cement Teaming Smoke-stac				•	994	90				
Repairing e	ngine	S	•	•	48	23				
Hardware			•		14	57				
Paint stock				•	3	30				
Cement				٠	1	20				
Teaming			•		9	00				
Smoke-stac	k		•	٠	7	00				
							\$4,7	88 42		
Regular of Draw-tende Substitutes Coal . Gas . Water . Falls . Ice . Small supple	expen	ses:								
Draw-tende	ers			. \$	\$5,737	86				
Substitutes					54	42				
Coal .					190	08				
Gas .					57	07				
Water.					25	00				
Falls .					22	10				
Ice . Small suppl	•				6	00				
Small suppl	ies		•		62	83				
							6,155			
									\$10,943	78
· Cambrid Cambri			brid	ge	(from	Bri	ghton	to		
Sheathed re			d dra	w.	repaire	ed w	aterwa	vs.		
piers, and	draw	-tend	ler's h	ous	e, and	mad	e gene	eral		
repairs on	hoist	ting n	nachir	ery			0			
Carpenters					\$124					
Lumber					94	88				
Nails . Ironwork					2	25				
Ironwork					139	45				
Hardware					1	95				
Hardware Car-fares Smoke-stack					9	75				
Smoke-stack					3	75				
						_	\$376	53		
Regular e	xpens	es:								
Draw-tender					\$365	56				
Coal .					4	33				
Coal . Small suppli	es				9	07				
							378	96		
									755	49

. Carried forward,

\$11,699 27

Brought forward,

\$11,699 27

Charles-river bridge (from Boston to Charles-town).

Sheathed draw and repaired deck, put in new timbers on side of abutments, repaired sidewalks, capping, fences, draw-tender's house, piers, and waterway, built two new road-gates and repaired the two old ones, general repairs on machinery and engine, repaired track-timbers and boat, painted bridge-buildings and fence, and special contract work done by Trumbull & Ryan, strengthening the piles and under-timbers.

Carpenters		00100	\$866	95				
TO 1			331					
Lumber			701					
Nails .			48					
Ironwork		•	600					
		•	105					
Repairing e	ngine	59	12					
Hardware Paint stock	•	•	69					
	no die	•	09	40				
Repairing			9.0	P7 A				
tor, trap,			26					
Painting sig			8					
Brick .	•	•	3	00	A0 == 1	10		
					\$2,774	12		
Contract								
Advertising	•		\$ 5					
Inspector			188					
Piles .			171	36				
Spurshores			185	00				
Girders and	brace	es,	570	00				
Girders and	l caps	3,	159	60				
Stringers an	ad bo	1-						
sters			28	98				
Labor			959	75				
Lumber		•	353	16				
Ironwork			244	70				
15% added			237	39				
,-					3,103	19		
							\$5,877	31
Regular e	expen	ses:						
Draw-tende					\$5,023	46		
Coal .					399			
Gas .					29			
Water.		·			$\frac{1}{25}$			
Cordage					159			
Ice .		Ĭ			6			
Ice . Salt .		•				20		
Lubricating	oil	•		•	52			
Salt . Lubricating Grate .					11			
0.2000	•	•	•	·				

Brought forward, \$5, Snatch block Kerosene Small supplies	712 81 \$5,877 31 \$11,699 27 10 50 8 88 72 25
Chalcas buildes [North] (as	——————————————————————————————————————
Chelsea bridge [North] (ov Mystic river).	er North channel,
Sheathed draw and repaired d	eck, also repaired
latches, piers, waterway, and	
justed draw, general repairs	on machinery and
engine, repaired boat and reset	
	8624 50
Painters	33 25
	523 06
Nails	12 50
Ironwork	159 74
Repairing engine	38 69
Hardware	9 03
Paint stock	12 60
Plumbing	4 24
Resetting buoys	101 50 40 83
Populating boot	18 00
Repairing boat	\$1,577 94
Regular expenses: Draw-tenders \$3.	φ1,577 34
Draw-tandars \$3	589 04
Draw-tenders \$3. Substitutes	330 68
Coal	290 71
Gas	
Gas	16 77 27 50
Ice	6 00
Ice Lubricating oil	14 20
Small supplies	53 84
* *	4,328 74
	5,906 68
Chelsea bridge [South] (ov Mystic river).	er South channel,
Sheathed draw and repaired dec	k renaired water-
ways, road-gates, and boat, ma	de general repairs
on engine and draw machinery,	and painted draw-
tenders' house inside.	Political district
Carpenters	286 25
Carpenters	177 00
Lumber	304 96
Nails	4 75
Ironwork	28 78
Hardware	27 31
Paint stock	37 12
Repairing boat	10 00
	\$876 17
Carried forward,	\$876 17 \$29,287 70
Curried Jordana,	\$010 11 \$\pi_20_5201 10

Brough	at for	ward,					\$876	17	\$29,287	70
Regular e									. ,	
Draw-tende	rs				\$4,386	72				
Draw-tende Substitutes					158					
Coal .					232					
Gas .					20					
Gas . Water .					$\frac{1}{32}$					
Tce .			•		6	00				
Ice . Clock .					$\begin{array}{c} 6 \\ 10 \end{array}$	00				
Hose.			•		7					
Small sunn	lies		•	•	38					
Hose . Small supp	1105	•	٠	•			4,893	26		
									5,769	43
Chelsea	stree	et bri	idge	(fro	m East	Bos	ston to	Chel	sea).	
Repaired sl	neathi	ng or	roa	dwav	and dr	aw.			,	
Carpenters										
Lumber	,				9	52				
Nails .					10	00				
Nails . Ironwork				•	10 81	32				
Car-fares	•	•	•		1					
Cal-lates	•	•	•	•			\$104	84.		
Regular	evner	1202 •					ΨIOT	O-I		
Draw-tende	oxpei.	1303.			\$287	50				
Draw-tende Lubricating	r oil	۰	•	•	3	50				
Luoricading	, 011	•	•	•	· ·		291	00		
							201	00	395	81
									000	O-36
Comme	cial	Poir	it o	r Te	enean	brit	lge (D	or-		
cheste	r).									
cheste: Repaired d	r). leck,	sheat	hing	, and	hoistin					
chester Repaired of made ne	r). leck, w flap	sheat s and	hing l pair	, and	hoistii fence.	ng 1				
chester Repaired of made ner Carpenters	r). leck, w flap	sheat s and	hing l pair	, and nted :	hoistir fence. \$44	ng 1				
chester Repaired of made ner Carpenters	r). leck, w flap	sheat s and	hing l pair	, and nted :	hoistin fence. \$44	ag 1 25 25				
chester Repaired of made ner Carpenters Painters Lumber	r). leck, w flap	sheat s and	hing l pair	, and ted:	hoistin fence. \$44	ag 1 25 25				
chester Repaired of made ner Carpenters Painters Lumber Ironwork	r). leck, w flap	sheat s and	hing l pair	, and ted:	hoistin fence. \$44 34 14 32	ag 1 25 25				
chester Repaired of made ner Carpenters Painters Lumber Ironwork	r). leck, w flap	sheat s and	hing l pair	, and ted:	hoistin fence. \$44 34 14 32	25 25 94 06 17				
chester Repaired of made ner Carpenters Painters Lumber Ironwork	r). leck, w flap	sheat s and	hing l pair	, and ted:	hoistin fence. \$44 34 14 32	25 25 94 06 17				
chester Repaired of made ner Carpenters Painters Lumber Ironwork Paint stock Car-fares	r). leck, w flap	sheat s and	hing l pair	, and ted:	hoistin fence. \$44 34 14 32	25 25 94 06 17 80		ery,		
chester Repaired of made ner Carpenters Painters Lumber Ironwork Paint stock Car-fares	r). leck, w flap	sheat s and	hing l pair	, and ted:	hoistin fence. \$44 34 14 32 7 4	25 25 94 06 17 80	machine	ery,		
chester Repaired of made ner Carpenters Painters Lumber Ironwork Paint stock Car-fares Regular	r). leck, w flap	sheat is and	hing l pair	, and nted:	hoistin fence. \$44 34 14 32 7 4	25 25 94 06 17 80	machine	47		
chester Repaired of made ner Carpenters Painters Lumber Ironwork Paint stock Car-fares	r). leck, w flap	sheat is and	hing l pair	, and nted:	hoistin fence. \$44 34 14 32 7 4	25 25 94 06 17 80	machine	47	187	47
Chester Repaired of made ner Carpenters Painters Lumber Ironwork Paint stock Car-fares Regular Draw-tendo	r). leck, w flap exper	sheat s and	hing l pair	, and	hoistin fence. \$44 34 14 32 7 4	25 25 94 06 17 80	\$137	47 00		47
chester Repaired of made ner Carpenters Painters Lumber Ironwork Paint stock Car-fares Regular Draw-tendo	r). leck, w flap exper	sheat is and	hing l pair	, and nted:	hoistin fence. \$44 34 14 32 7 4 ver For	25 25 94 06 17 80	\$137 50 ——	47 00 nnel		47
chester Repaired of made ner Carpenters Painters Lumber Ironwork Paint stock Car-fares Regular Draw-tendo Congres Sheathed d	r). leck, w flap exper	sheat is and is an and is an analysis and analysis and an analysis analysis and an analysis and an analysis and an analysis and an analysis analysis and an analysis and an analysis analysis and an analysis and an analysis and an analysis analysis and an analysis analysis and an analysis analysis and an analysis and an analysis analysis analysis and an analysis analysis analysis analysis analysis analysis analysis analysis ana	hing l pair	, and nted:	hoistin fence. \$44 34 14 32 7 4 ver For pier, la	25 25 94 06 17 80	\$137 50 —— sint charses on dra	47 00 nnel		47
chester Repaired of made ner Carpenters Painters Lumber Ironwork Paint stock Car-fares Regular Draw-tendo Congres Sheathed d waterway	r). leck, w flap exper	sheat s and eet b wice,	hing l pair	, and nted:	hoistin fence. \$44 34 14 32 7 4	25 25 94 06 17 80 	\$137 50 —— oint charses on drageneral	47 00 nnel		47
chester Repaired of made ner Carpenters Painters Lumber Ironwork Paint stock Car-fares Regular Draw-tendo Congres Sheathed of waterway pairs ma	experers tys, ande o	sheat s and	hing l pair ridg repa aw-to	, and ted :	hoistin fence. \$44 34 14 32 7 4 	25 25 94 06 17 80 	\$137 50 —— oint charses on drageneral, repai	47 00 — nnel aw, re- red		47
chester Repaired of made ner Carpenters Painters Lumber Ironwork Paint stock Car-fares Regular Draw-tendo Congres Sheathed of waterway pairs ma fender-gr	experesser aw to the control of the	sheat s and	ridg repa aw-togines	, and nted :	hoistin fence. \$44 34 14 32 7 4 	25 25 94 06 17 80 	\$137 50 —— oint charses on drageneral, repai	47 00 — nnel aw, re- red		47
chester Repaired of made ner Carpenters Painters Lumber Ironwork Paint stock Car-fares Regular Draw-tendo Congres Sheathed of waterway pairs ma fender-grand red-	experer sestrated to the control of	sheat os and 	ridg repa aw-togines	, and nted :	hoisting fence. \$44 34 14 32 7 4 ver Forpier, las' house machined brid.	25 25 94 06 17 80 — t-Potes, genery ge a	\$137 50 —— oint charses on drageneral, repai	47 00 — nnel aw, re- red		47
chester Repaired of made ner Carpenters Painters Lumber Ironwork Paint stock Car-fares Regular Draw-tendo Congres Sheathed of waterway pairs ma fender-gr and red- Carpenters	experer sestrated to the control of	sheat os and 	hing l pair	, and nted :	hoistin fence. \$44 34 14 32 7 4 	25 25 94 06 17 80 —	\$137 50 —— oint charses on drageneral, repai	47 00 — nnel aw, re- red		47
chester Repaired of made ner Carpenters Painters Lumber Ironwork Paint stock Car-fares Regular Draw-tendo Congres Sheathed of waterway pairs ma fender-gy and red- Carpenters Painters	experer sestrated to the control of	sheat os and 	ridg repa aw-togines	, and nted :	hoistin fence. \$44 34 14 32 7 4	25 25 94 06 17 80 —	\$137 50 —— oint charses on drageneral, repai	47 00 — nnel aw, re- red		47
chester Repaired of made ner Carpenters Painters Lumber Ironwork Paint stock Car-fares Regular Draw-tendo Congres Sheathed of waterway pairs ma fender-gr and red- Carpenters Painters Lumber	experer sestrated to the control of	sheat os and 	hing pain	, and nted :	hoistin fence. \$44 34 14 32 7 4	25 25 94 06 17 80 —	\$137 50 —— oint charses on drageneral, repai	47 00 — nnel aw, re- red		47
chester Repaired of made ner Carpenters Painters Lumber Ironwork Paint stock Car-fares Regular Draw-tendo Congres Sheathed of waterway pairs ma fender-gy and red- Carpenters Painters	experer sestrated to the control of	sheat os and 	hing l pair	, and nted :	hoistin fence. \$44 34 14 32 7 4	25 25 94 06 17 80 —	\$137 50 —— oint charses on drageneral, repai	47 00 — nnel aw, re- red		47
chester Repaired of made ner Carpenters Painters Lumber Ironwork Paint stock Car-fares Regular Draw-tendo Congres Sheathed of waterway pairs ma fender-gr and red- Carpenters Painters Lumber	experence of a control of the contro	sheat os and conses: eet b cwice, and dr n eng and b d all	hing l pair	, and nted:	hoistin fence. \$44 34 14 32 7 4	25 25 94 06 17 80 	\$137 50 —— oint charses on drageneral, repai	47 00 — nnel aw, re- red		

\$49,806 79

Brought for	ward.		5	\$1,947	67		\$35,640 44
Ironwork .				389	37		,
Hardware .				9	79		
Paint stock .				205	72		
Repairing boat				22	85		
Brought for Ironwork Hardware Paint stock Repairing boat Repairing piling Teaming	,			186	74		
Teaming .	, •	·		23	00	*	
Tournes .	•	•	•			\$2,785 14	
ro 1						w=,.00 11	
Regular exper	nses:			A = 400	0.0		
Draw-tenders		•		\$5,133	03		
Substitutes . Coal	•	•	•	467	49		
Coal	•	•	•	289	60		
Water	•			106	75		
Grates .	•	•	•	47	44		
Kerosene .			•	38	53		
Coal			•	7	10		
Clock .				10	00		
Ice				6	00		
Waste			•	8	10		
Salt				6	80		
Small supplies				89	48		
						6,210 32	
							8,995 46
Domen of seed	L band d	~~ <i>(</i>		T3 (T)	. ,	ahannal)	
Dover-street	bria	ge (over	Fort-P	oint	channer).	
Built temporary	fenc	ge (over epaire	ed foot	oint -bri	dge, raised	
Built temporary and repaired	fenc drav	ee, re v-ten	epaire ders'	ed foot house	oint bri- an	dge, raised d painted	
Built temporary and repaired same inside a	fence draw and o	ee, re v-ten ut t	epaire ders' wo co	d foot house oats.	-bri an	dge, raised d painted	
Built temporary and repaired same inside a	fence draw and o	ee, re v-ten ut t	epaire ders' wo co	d foot house oats.	-bri an	dge, raised d painted	
Built temporary and repaired same inside a Carpenters . Painters .	fend draw and o	ee, reveten	epaire ders' wo co	ed foot house eats. \$330 312	-bridan 00 25	dge, raised d painted	
Built temporary and repaired same inside a Carpenters . Painters .	fend draw and o	ee, reveten	epaire ders' wo co	ed foot house eats. \$330 312	-brie an 00 25 60	dge, raised d painted	
Built temporary and repaired same inside a Carpenters . Painters .	fend draw and o	ee, reveten	epaire ders' wo co	ed foot house eats. \$330 312	-brie an 00 25 60 00	dge, raised d painted	
Built temporary and repaired same inside a Carpenters . Painters . Lumber . Nails .	fend draw and o	ee, ree, rev-ten	epaire ders' wo co	ed foot house eats. \$330 312 207 28	-brie an 00 25 60 00 26	dge, raised d painted	
Built temporary and repaired same inside a Carpenters . Painters . Lumber . Nails .	fend draw and o	ee, ree, rev-ten	epaire ders' wo co	ed foot house eats. \$330 312 207 28	-brie an 00 25 60 00 26	dge, raised d painted	
Built temporary and repaired same inside a Carpenters . Painters . Lumber . Nails .	fend draw and o	ee, ree, rev-ten	epaire ders' wo co	ed foot house eats. \$330 312 207 28	-brie an 00 25 60 00 26	dge, raised d painted	
Built temporary and repaired same inside a Carpenters . Painters . Lumber . Nails .	fend draw and o	ee, ree, rev-ten	epaire ders' wo co	ed foot house eats. \$330 312 207 28	-brie an 00 25 60 00 26	dge, raised d painted	
Built temporary and repaired same inside a Carpenters . Painters . Lumber . Nails .	fend draw and o	ee, ree, rev-ten	epaire ders' wo co	ed foot house eats. \$330 312 207 28	-brie an 00 25 60 00 26	dge, raised d painted	
Built temporary and repaired same inside a Carpenters . Painters . Lumber . Nails .	fend draw and o	ee, ree, rev-ten	epaire ders' wo co	ed foot house eats. \$330 312 207 28	-brican 00 25 60 00 26 73 70 54 25	dge, raised d painted	
Built temporary and repaired same inside a Carpenters . Painters . Lumber . Nails .	fend draw and o	ee, ree, rev-ten	epaire ders' wo co	ed foot house eats. \$330 312 207 28	-brican 00 25 60 00 26 73 70 54 25	dge, raised d painted	
Built temporary and repaired same inside a Carpenters . Painters . Lumber . Nails .	fend draw and o	ee, ree, rev-ten	epaire ders' wo co	ed foot house eats. \$330 312 207 28	-brie an 00 25 60 00 26 73 70 54 25 63	dge, raised d painted	
Built temporary and repaired same inside a Carpenters . Painters .	fend draw and o	ee, ree, rev-ten	epaire ders' wo co	ed foot house eats. \$330 312 207 28 4 26 37 12 46 136 17	-brie an 00 25 60 00 26 73 70 54 25 63 00	dge, raised d painted	
Built temporary and repaired same inside a Carpenters . Painters . Lumber . Nails . Ironwork . Hardware . Paint stock . Plumbing . Wire cable for o Plastering house New chimney Lettering signs	7 fend draw and o	v-ten ut tv	epaire ders' wo co	ed foot house eats. \$330 312 207 28 4 26 37 12 46 136 17 10	-bridan 00 25 60 00 26 73 70 50 54 25 63 00	dge, raised d painted	
Built temporary and repaired same inside a Carpenters . Painters . Lumber . Nails . Ironwork . Hardware . Paint stock . Plumbing . Wire cable for o Plastering house New chimney Lettering signs	7 fend draw and o	v-ten ut tv	epaire ders' wo co	ed foot house eats. \$330 312 207 28 4 26 37 12 46 136 17 10	-bridan 00 25 60 00 26 73 70 50 54 25 63 00	dge, raised d painted	
Built temporary and repaired same inside a Carpenters . Painters . Lumber . Nails . Ironwork . Hardware . Paint stock . Plumbing . Wire cable for o Plastering house New chimney Lettering signs	7 fend draw and o	v-ten ut tv	epaire ders' wo co	ed foot house eats. \$330 312 207 28 4 26 37 12 46 136 17 10	-bridan 00 25 60 00 26 73 70 50 54 25 63 00	dge, raised d painted	
Built temporary and repaired same inside a Carpenters . Painters . Lumber . Nails . Ironwork . Hardware . Paint stock . Plumbing . Wire cable for o Plastering house New chimney Lettering signs	7 fend draw and o	v-ten ut tv	epaire ders' wo co	ed foot house eats. \$330 312 207 28 4 26 37 12 46 136 17 10	-bridan 00 25 60 00 26 73 70 50 54 25 63 00	dge, raised d painted	
Built temporary and repaired same inside a Carpenters . Painters . Lumber . Nails . Ironwork . Hardware . Paint stock . Plumbing . Wire cable for o Plastering house New chimney Lettering signs	7 fend draw and o	v-ten ut tv	epaire ders' wo co	ed foot house eats. \$330 312 207 28 4 26 37 12 46 136 17 10	-bridan 00 25 60 00 26 73 70 50 54 25 63 00	dge, raised d painted	
Built temporary and repaired same inside a Carpenters . Painters . Lumber . Nails . Ironwork . Hardware . Paint stock . Plumbing . Wire cable for o Plastering house New chimney Lettering signs	7 fend draw and o	v-ten ut tv	epaire ders' wo co	ed foot house eats. \$330 312 207 28 4 26 37 12 46 136 17 10	-bridan 00 25 60 00 26 73 70 50 54 25 63 00	dge, raised d painted	
Built temporary and repaired same inside a Carpenters . Painters . Lumber . Nails . Ironwork . Hardware . Paint stock . Plumbing . Wire cable for o Plastering house New chimney Lettering signs	7 fend draw and o	v-ten ut tv	epaire ders' wo co	ed foot house eats. \$330 312 207 28 4 26 37 12 46 136 17 10	-bridan 00 25 60 00 26 73 70 50 54 25 63 00	dge, raised d painted	
Built temporary and repaired same inside a Carpenters . Painters . Lumber . Nails . Ironwork . Hardware . Paint stock . Plumbing . Wire cable for o Plastering house New chimney Lettering signs	7 fend draw and o	v-ten ut tv	epaire ders' wo co	ed foot house eats. \$330 312 207 28 4 26 37 12 46 136 17 10	-brie an 00 25 60 00 26 73 70 54 25 63 00 56 05 00 59	dge, raised d painted	
Built temporary and repaired same inside a Carpenters . Painters . Lumber . Nails .	7 fend draw and o	v-ten ut tv	epaire ders' wo co	ed foot house eats. \$330 312 207 28 4 26 37 12 46 136 17 10	-brie an 00 25 60 00 26 73 70 54 25 63 00 56 05 00 59	dge, raised d painted	5,170 89

Carried forward,

Brought forward, Essex-street bridge	e (from I	Brighton	to Cam-	\$49,806 79
bridge).				
Repaired deck, sheathin	g and pier	s.		
Carpenters	. \$:	197 96		
Carpenters Lumber		173 26		
THE RESIDENCE OF THE PARTY OF T		14 00		
Ironwork		21 58		
nonwork	•	21 00	406 80	
Dogular arranges			400 00	
Regular expenses:	db.	ຕະດ ຄລ		
Draw-tender	. 5	10 00		
Substitute	•	12 66		
Coal	•	8 46		
Lubricating oil Small supplies	•	6 50		
Small supplies		8 28		
			694 22	
				1,101 02
Federal-street/bridg	re (over Fo	rt-Point	channel).	
Sheathed draws twice, r	epaired ros	d-gates.	built new	
float stage, repaired				
chinery, painted fend	Percete and	d redale	aded iron-	
work.	e-gate and	<i>x</i> 160-16	actect fron-	
	Ф	044 10		
Carpenters		244 12		
Painters		15 00		
Lumber		333 58		
Nails		17 88		
Ironwork		172 89		
Hardware		24 61		
Paint stock		3 14		
Plumbing	•	30 77		
Repairing motor-house .		40 25		
Repairing rail-fence		19 52		
Two wire cables for dra		36 99		
Running wires for moto		91 00		
Galvanized pipe		19 17		
		10 55		
Smoke-stack	•		Ø1 050 47	
D	-		\$1,059 47	
Regular expenses:	<i>t</i> > ~ <i>(</i>	0.5		
Draw-tenders Substitutes	. \$5,9			
Substitutes	.]	195 00		
Coal	•	52 85		
Gas		50 57		
Water		10 00		
Ice		6 00		
Ice Lubricating oil		28 00		
Small supplies		43 47		
			6,383 75	
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7,443 22
Granite bridge (fro	D 1	oton to T	Wilton)	1,110 22
Sheathed draw and road	m Horene			
	m Dorche	ster to 1 reneired	niers	
	dway, and	repaired	piers.	
Carpenters	dway, and	repaired \$59 75	l piers.	
	lway, and	repaired	piers.	\$58,351 03

Brough Lumber Nails .	t foru	vard,			\$59	75			\$58,351	03
Lumber					76	62				
Nails .										
Ironwork			•		$\frac{2}{163}$	03				
							\$301	65		
Regular e	xpen	ses:								
Draw-tende	r .				\$239	20				
Lubricating	oil				5	75				
Draw-tender Lubricating Small suppl	ies			Ì	1	94				
one on pr		•		·	-		246	89		
									548	54
L-street	brids	re (c	ver r	eser	ved ch	anne	el at ju	nc-		
tion of							4"			
Repaired wa	aterwa	avs a	nd pie	ers.	minor	repa	irs on	en-		
gines, and	d a lit	tle p	aintin	g de	one ins	ide o	draw-te	nd-		
ers' house		L.		0						
Carpenters					\$151	07				
Painters					15					
Lumber					101					
Nails .					17					
Nails . Ironwork	•	•	•	•	32					
Ironwork Repairing en	· ngine		•	•	12					
Hardware	ug.iiic.	9	•	•	14					
Hardware Paint stock	* .	•	• .	٠	18					
Plumbing	•		•	•	56					
Smoke-stack	· ·	•	•	•	9					
Smoke-state		•	0	•			\$430	57		
Regular e	Then	202 •					Ψ100	01		
Draw-tender	re re	303.		9	2 468	11				
Draw-tender Substitutes		•	•	. 0	600	06				
Coal	•	•	•		164	32				
Coal . Water		•			86.	00				
Tre	•	6-	•							
Ice . Bedding	•	•			$\begin{array}{c} 6 \\ 27 \end{array}$	00				
Stove	• -	•	•		19					
Stove . Lubricating	oil	•	•		11					
Packing	OII	•	•	•	18					
Clock			•	•	10					
Grates	•	•	•	•	9					
Conner nans	2	•	•	•	27					
Grates Copper pans Small suppl	ies	•	•	•	78					
omun suppi	100	•	•	•			3,527	84		
									3,958	41
Malden k	mida	O (fr	om (Thor	lastom	n to	Everet	t)	,,,,,,,	
Sheathed d	niug	e (II	om c	roto:	USTOWA	nio	Tryeres	o].		
guards, si	dowel	le on	d for	co e	dineto	d dr	aw nut	in		
new water										
two coats		100,	and]	path	ica no	use	and lei	100		
and the same of th					\$343	01				
Carpenters Painters		•	•	•	24	88				
Lainteis	•	•	•	•		00				
Carried	forw	ard,			\$367	89			\$62,857	98

124	CITI	DOCUMENT	NO. 04.	
Brought forw	ard,	\$367	89 ·	\$62,857 98
Lumber .		. 187	57	
Nails		. 4	50	
Ironwork .		. 100	86	
Paint stock .			21	
Plumbing .			70	
Car-fares .		. 2	30	
			\$709 0	3
Regular expens	es:			
Draw-tenders .		. \$2,791	36	
Substitutes		. 75	00	
Coal		. 28	59	
Coal		. 17	83	
Water . Ice . Lubricating oil Row-boat .		. 10	00	
Ice . ' .		. 6	00	
Lubricating oil		. 5	90	
Row-boat .		. 67	50	
Small supplies		. 44	11	
* *			3,046 29	9
				- 3,755 32
Meridian-stree	t bridg	ge (from E	ast Boston t	0
Sheathed draw, re	paired w	aterway, pie	rs, fence, road	-
gates, and latel				
machinery, repa				
and painted brid				
buildings one c			,	
Carpenters .		. \$682	75	
Painters .		. 479	88	
Lumber .				
Maile		10		

Carpenters .				\$682	70		
Painters .				479	88		
Lumber .				300	11		
Nails				12	50		
Ironwork .				288	67		
Hardware .				20	83		
Paint stock .				100	66		
Plumbing .				43	27		
Ferry-fares .				1	00		
Resetting buoy				50	00		
Making pattern				12	25		
TO 1 1 1				14	00		
Chimney pot				11	18		
Sundries .				15	65		
,				-		\$2,032	75
Regular expe	nses.						
Draw-tenders				\$2,791	36		
0 3 141 1	•			880			
	•		•	$\frac{24}{24}$			
Coal Feed			•	118			
	•	•	•		73		
	•		•	10			
				41			
Horseshoeing	•	•		41	00		

Carried forward, \$3,877 08 \$2,032 75 \$66,613 30

\$575 16 \$79,778 94

Brough	t foru	pard,			\$3,877	08	\$2,032	75	\$66,613	30
Veterinary	servio	ee			22	00				
Ice .			•		6	00				
Ice . Lubricating	oil				11	40				
Small suppli			•	٠	36					
T I					-		3,952	65		
									5,985	40
Mt. Wasl	ingt	on-a	venu	e bi	ridge (d	over	Fort-Po	oint		
channe		· ••								
Sheathed dr		wice.	repa	ired	fence	and	sidewa	lk.		
sheathed	nier.	rena	ired	wa1	terways	. la	tches.	nd		
boat, mad	esani	itarvi	renai	rs i	n draw-1	tend	ers' hou	Se.		
and paint	ed hr	idee s	and	huil	dings.	CHA	icis nou	9		
Carpenters	CG DI	rage .	WII CL	Otti	\$793	95				
Painters		۰	۰	۰	354	00				
		•	•	•	780					
Noila	•	•	۰	•	32		*			
Nans .	•	٠	0	٠	$\frac{52}{124}$					
Ironwork	•	•	•	٠		-				
Hardware	•	*	•	•	5					
Paint stock		٠	•		74					
Nails . Ironwork Hardware Paint stock Plumbing Car-fares	•			٠	104					
t ar-lares				•	1					
Repairing b Damage to	oat					50				
Damage to	schoo	ner			11					
Small sundi	ies				6	48				
							\$2,318	80		
Regular e	expen	ses:								
Draw-tende Substitutes	rs				\$4,486	56				
Substitutes		٠			56	28				
Coal . Gas .					41	21				
Gas .					81					
Water.				,	10 6	00				
Ice .					6	00				
Water. Ice. Lubricating Stove and	oil .				25	75				
Stove and 1	repair	s			12	12				
Rent of lan	ď				60	00				
Small suppl						14				
omar sapp							4,861	44		
									7,180	24
Neponse	t bri	dge (fron	n Do	orcheste	r to	Quincy).	-,	
Repaired de	ek an	d she	athe	d ro	adway.	ren	aired fla	DS.		
piers, wa					,	L		1		
[See Spe	cial.	Stre	et I	npre	ovement	ts. V	Ward 24	."7		
Carpenters					\$362	00	.,	. 7		
Lumber					81	04				
Nails .					39	25				
Nails . Ironwork Hardware					64	19				
Hardware	•	•	•	•	7	58				
Carefores	* '	•	•	•	2	10				
Car-fares Repairing b	ont	٠	٠			00				
repairing t	oat	•	•		10	00	\$575	1.0		
							9010	10		

Carried forward,

$Brought\ forward,$. \$575 16 \$79,778 94
Regular expenses:	
Draw-tender \$398 8	84
Lubricating oil 5	7 5
Small supplies 2	
r	407 22
	982 38
North Beacon-street bridge (from Watertown).	n Brighton to
Laid new deck on draw and sheathed t	he same.
Carpenters \$40 (Lumber	31
Nails 2 2	25
Nails . <td>35</td>	35
Sundries 2 (00
	_ \$96 21
Regular expenses:	400 22
Draw-tender	. 74 88
Ditti tender	——————————————————————————————————————
North Harvard-street bridge (from	
Cambridge).	ii Brighton to
Sheathed roadway and draw, and put in	n new flans
Carnenters \$34	75
Carpenters	36
Nails	
Nails	55
Car-fares	80
Regular expenses:	WOMO 12
Draw-tender	365 56
	695 27
Warren bridge (from Boston to Ch	arlestown).
Sheathed both draws three times, re	
waterway, and fender-guard, adjuste	
paired boat, general repairs made on	engines and
machinery, and painted top and	underside of
bridge and buildings one coat.	
Carpenters \$774 8	39
Painters	2
Lumber	
Nails	
Repairing engine 116 7	
Hardware 2 2	
Paint stock	
Plumbing	
Wire cable for draw	
Repairing roof 35 0	
Small sundries 9 1	
	\$3,732 41
Carried forward,	\$3,732 41 \$81,627 68

\dot{B} roug l	ht for	ward	,				\$3,732 41	\$81,627	68
Regular	expen	ses:							
Draw-tende	ers		•		\$5,047	56			
Substitutes					267	50			
Coal .					686				
Gas .					96				
Water.		:			50	00			
Ice . Ladders					. 6				
Ladders					9	20			
Small suppl	lies				58	53			
					-		$6,221\ 27$	9,953	6.9
Western bridge)		nue 1	bridg	;e (from Br	ight	ton to Cam-	3,000	()()
Sheathed d		and 1	roadw	ay,	repaire	d d	eck, fence,		
Carpenters					\$50				
Lumber					111				
Nails .				۰	2				
Ironwork			•		186				
Car-fares			•	•	10	10	# 0		
D 1							\$360 91		
Regular e	expen	ses:			#0C=	F 0			
Draw-tende	r	*	•	•	\$365				
Coal .		*	٠	•	6				
Lubricating	OII	*	•	٠	9	75	377 81		
					-		077 01	738	72
			brid	ge	(from	В	righton to	•09	• -
Watert			J .J			:	1. 44		
Sheathed ro	aawa w to	y and pie	a arav er, bu	w, p ailt	new t	ew 1 ool-l	house and		
Carpenters					\$162	50			
painted t Carpenters Lumber					181	03			
Nails .					39	35			
Ironwork					9	30			
Hardware				٠	4	52			
Car-fares						00			
							\$404 70		
Regular e Draw-tende	xpens	ses:				0.0			
Draw-tende	r			۰	\$74				
Substitutes			•	•					
Storage of t	cools	٠		•					
Small suppl	ies	•		۰	6	98	107 00		
							135 36	540	06
		idge	(from	n E	Breed's i	slan	d to Win-	- 030	
throp). Sheathed ro		\$7							
Carpenters					0110	~ ^			
	•		•	•	\$143	50			

$Brought\ forward,$		\$1 4 3 50		\$92,860 14
Lumber		316 59		#° = ,° ° ° ° = =
Nails	•	15 00		
Nans	•			
Car-fares		27 35	A F 0 0 1 1	
			\$502 44	
Regular expenses:				
Draw-tender			100 00	
				602 44
Sundry expenditur	es on tide	e-water br	idges.	
Lumber		\$4 13		
Nails		23 13		
Ironwork		127 00		
		19 97		
Paint		, 25 84		
Cleaning iron trucks		60 00		
B. W. W. tickets, mech	ianics,	37 50		
W. E. "	6	115 00		
			\$412 57	
Regular expenses:			W	
Chief draw-tender	@ ·	1,820 00		
Messenger		797 68		
Draw-tenders' books		80 23		
Draw-tenders' books Stationery and postals		16 38		
Repairing wagon .		52 60		
Car-fares		20 00		
Small supplies .		49 00		
Studie Supplies .			2,835 89	
			2,000 00	9 949 46
Public landings.				3,248 46
Repairs.				
Commercial Wharf:				
	# 0 00			
Labor	\$8 00			
	7 05			
Painting sign	6 00			
_		\$21 05		
East Boston:				
Towage	\$7 75			
т 1	3 46			
Ironwork	0 40	11 01		
•		11 21	402 20	
			\$32 26	
Regular expenses:				
East Boston:				
Rent			62 50	
				94 76
				01 10
Total avanded on tide	water by	idan		\$06 805 80
Total expended on tide	-water bri	auges .		\$96,805 80

RECAPITULATION.

Table showing Expenditures on the Tide-water Bridges for the Year, February 1, 1894, to January 31, 1895.

Name of Bridge.	Repairs, Labor Lumber, Iron- work, and Painting.		1- l,	Total.
Broadway	\$4,788 42	\$6,155	36	\$10,943 78
Cambridge street	376 53	378	96	755 49
Charles river	5,877 31	5,804	44	11,681 7
Chelsea (North)	1,577 94	4,328	74	5,906 68
Chelsea (South)	876 17	4,893	26	5,769 4
Chelsea street	104 84	291	00	395 8
Commercial point	137 47	50	00	187 4
Congress street	2,785 14	6,210	32	8,995 4
Dover street	1,169 46	4,001	43	5,170 8
Essex street	406 80	694	22	1,101 0
Federal street	1,059 47	6,383	75	7,443 2
Granite	301 65	246	89	548 5
L street	430 57	3,527	84	3,958 4
Malden	709 03	3,046	29	3,755 3
Meridian street	2,032 75	3,952	65	5,985 4
Mount Washington avenue	2,318 80	4,861	44	7,180 2
Neponset	575 16	407	22	982 3
North Beacon street	96 21	74	88	171 0
North Harvard street	329 71	365	56	695 2
Warren	3,732 41	6,221	27	9,953 6
Western avenue (to Cambridge)	360 91	377	81	738 7
Western avenue (to Watertown)	404 70	135	36	540 0
Winthrop	502 44	100	00	602 4
Chief draw-tender and sundry expenditures	412 57	2,835	89	3,248 4
Public landings	32 26	62	50	94 7
Totals	\$31,398 72	\$65,407	08	\$96,805 8

INLAND BRIDGES.

Albany-s									oad).	
									\$11	38
sheathed Ashland	street	t bri	dge	(over	Nev	v Yor	k. N	ew		
Haven,	& F	Lartfo	ord B	ailros	id. P	rovide	ence 1	Di-		
vision)		2002 02 0	/200 300			10 7 2010	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Sheathed ro										
Carpenters							\$24	00		
Lumber							83			
Nails .		•				•	4			
2,44110	•	•	•	•	•	٠			111	50
Baker-st					Farn	a, We				,,,
Sheathed ro										
Carpenters				•			\$22			
Lumber				a			64	30		
Lumber Nails							4	75		
									91	55
Beacon-s Railroa	d.		lge (over	Bosto	on &	Alba	ny		
Sheathed ro										
Carpenters						٠	\$ 66	00		
Lumber							115	66		
Lumber Nails .							4	50		
Berkeley bany R	ailroac	d).	ridge	e (ov	er B	oston	& 1	Al-	186	16
Sheathed ro	auway	3.					\$68°	29		
Carpenters Lumber	٠	•	٠	•	•	•	67	90		
Lumber	•	0	•	•	٠	•	07	20	135	59
Berkeley Haven, vision) Repaired sh	& H •	artfo	rd R	ailroa	r Ne	w Yor rovide	rk, N	ew Di-	199	02
							\$12	75		
Carpenters Lumber	•				•	. • •				
Hardware	•						3	50		
Nails .	•	•	•	•			4			
1,44119 •	*	•	•	٠	•	•			61	70
Blakemo Haven, vision)	& H									• •
Repaired ire	on fen	ce an	d pat	ched	sheat	hing.				
			-				\$18	00		
Lumber							7	39		
Nails .							2	25		
								_	27	64
Carrie	l forw	ard,							\$625	45

Brough Bolton-st England	treet	brid		over 1	New	York	& New	\$625	45
Repaired sid	lewal	ks an	d roa	dway.					
Carpenters	40 11 223			a may a			\$4 69		
Carpenters Lumber					•		5 29		
130111001		•	• •	• (·	·		9	98
Boylston bany R	ailro	ad).						v	
Sheathed or	e roa	adway	z and	repair	ed th	ne othe	er.		
Carpenters						•	\$84 38		
Lumber							118 78		
Carpenters Lumber Nails				•			$\sqrt{4}$ 50		
Broadwa road).	y bi	ridge						207	66
Sheathed ro							# CE 00		
Carpenters	•	•	•	•	•	۰	\$65 00	,	
Lumber		•		•		٠	9 00		
Nails .	•	•	•	• •			9 00	185	US.
Columbi bany I Sheathed ro	Railro adw:	oad. ays ar	nd rep	aired	whee	el-guar	n & Al-	100	
Carpenters Lumber			•				\$83 71		
Nails .	•	•	•		•	•	11 25		
								175	44
Common Sheathed ro [Balance Improv	oadwa of lu vemen	ay an mber nts, V	d laid used o Vards	new a charge 19 an	sideved to s	valk. special '"]	"Street		
Carpenters Lumber	<i></i>			٠			104 75 164 35		
Lumber			1				101 00		
Nails .			• 1		•				
								290	70
Cornwal Sheathed ro	adwa	ay.	Ŭ						
Carpenters Lumber	•	•	•	•	٠	•	\$26 50		
Lumber		•	•		•	•	33 66	0.0	1.0
Cottage Railroa Sheathed ro	id at	Compay.					Albany	60	16
Carpenters					•,		\$62 25		
Lumber							152 43		
Nails .							13 12		
Car-fares							6 00		
								233	80
Carrie	d for	ward,						\$1,788	22

Brough Cottage-				hride	re (o	ver f	lats. F	last.	\$1,788	22
Boston		e Li		NI IU	50 (0	, СТ 1	iuco, i	1660		
Repaired pi	íles, s	way	-brace			nd b	ridge-t	en-		
Bridge-tend	or or	л ра •	mucci	поизс	•		\$630	00		
Carpenters	CI	•	•	•	•	•	181			
D					•	•	20			
Painters Lumber Ironwork Paint stock Car-fares Lettering si Smoke-stack Coal		•	•		·		106			
Ironwork								74		
Paint stock		•	•					19		
Car-fares	·							70		
Lettering si	gn g						. 5			
Smoke-stack	5 K							75		
Coal .	_							33		
Small suppl	ies							11		
			Ť		_	Ť			979	11
Elmwoo	l-stra	at	hrido	a (o	wor S	Stony			313	44
Repaired si	dewal	k an	d shea	thed	roady	vav.	0100	K) *		
Carpenters				· ·		,,	\$19	25		
Carpenters Lumber Nails		·					22	35		
Nails .			·	·		·	4	50		
		·	·		Ť				16	10
Ferdinal Railroa Sheathed ro	d). adwa	٧.				oston				
Carpenters	•	•	•	•	•	•	\$21			
Carpenters Lumber	•	•	•		•		55			
Nails .		•	•	•	•	•	2	25	=0	0.0
Gardner Laid new de	eck ar	nd sh	neathe	d the	same		y). \$15	00	10	99
Lumber	•	•	•	•	•	•	22	0 0		
Carpenters Lumber Nails .	•	•	•,	•	•	•	. 2	25		
114115	•	•	•	•	•	•	24		39	85
Hunting Albany Sheathed ro	Rail	road	.).				Boston	&		
Carpenters		, •					\$40	50		
Lumber						·	157			
Sheathed ro Carpenters Lumber Nails						·	9	00		
Hyde Pa Repaired de Carpenters Lumber Nails .	rk-av ck an	venu d sh	e bri	idge d road	(over	Ston	y broo \$101 138	k). 75 87	206	87
Nails .	•	۰	à	•	•	•	7	75	0.40	0.5
									248	37
Carried	forw	ard,							\$3,387	84

Brough Keyes-st	treet	culv	ert ($\langle \mathbf{Wes} \rangle$	t Rox	bury).		\$3	,387	84
Sheathed ro	aawa	ıy.					# 4 P 4	0		
Carpenters	•	•	•	•	•		\$45 1			
Lumber	•		•	•	•	٠	25 2			
				. 7					70	45
Linden I Repaired de	eck ar	nd sh	eathe	d roa	dway.			,		
Carpenters		•			•	•	\$26 7			
Lumber	•						58 1	7		
Nails .			•		0	۰	4 5	0		
Longwood Brookl		enue	bri	dge	(from	n Roz	kbury t	0	89	42
Sheathed ro		1 %7								
Carpontors	TOTAL TY C	y.		-			\$24 5	.0		
Carpenters Lumber	. •	•	•	•	• ,	•				
Lumoer	•	•	•	•	•	٠	58 1			
Nails .	•	٠	۰	۰	•	•	2 2		0.4	0.0
Massach Albany	Rai	lroad).						84	93
Sheathed or	ne ros	adway	y and	repa	ired tl	he oth	er.			
Carpenters								4		
Lumber							58 3	1		
Nails .							4 5	0		
						-			113	75
Massach New H Division Sheathed ro	Haven on).	, & I					ew York covidence			
Carpenters							\$33 (00		
Tumber	•	•	•	•	•	•	67 5	69		
Lumber Nails .			•		•	•	4 5	(A)		
ivalis .	•	•		٠	•	•	T (_	105	09
Mattapa: Patched ros	adway	7.							100	03
[Balance	of	lumb	er u	sed	charge	ed to	speci	al		
" Stree	et Im	prove	ement	s, W	ard 24	ŀ.'']				
Carpenters							\$30 7			
Lumber					٠.		3 2	26′		
Nails .							2 2	5		
								→	36	26
Shawmu Railroa	id).			,						
Built new s					side	and c	concrete	a		
same, and	u sne	atned	road	way.			#20 <i>m</i> 0			
Carpenters	•	•	•		•		\$237 9			
Painters	٠	•		•				00		
Lumber				۰		•	357 4			
Nails .							19 0	-		
Ironwork							9 2	3		
Carrie	d for	ward,					\$657	- 51. \$ 3	,887	74

Paint stock 58 90		t forw	ard,					\$657	61	\$3,887	74
Summer-street culvert (West Roxbury). Sheathed roadway and repaired sidewalk. Carpenters \$12 00	Paint stock		. ′	۰						" -)	
Summer-street culvert (West Roxbury). Sheathed roadway and repaired sidewalk. Carpenters \$12 00	Cement and	sand						3	00		
Summer-street culvert (West Roxbury). Sheathed roadway and repaired sidewalk. Carpenters	Concrete wa	lk	•	Ť	•		•				
Summer-street culvert (West Roxbury) Sheathed roadway and repaired sidewalk Carpenters	Concrete wa	IK	٠	J.	•	• >	•	104	00	854	04
Sheathed roadway and repaired sidewalk. Carpenters	Summon	-atmoo	t oul	want	/Wos	+ Pos	hunn	`		004	04
Carpenters \$12 00	Shoothed re	stree	t cm	ropoi	es vol	down	Coury)•			
Lumber								# 10	0.0		
Texas-street bridge (over Stony brook). Rebuilt bridge. Carpenters	Carpenters	•		•	•	٠		,,			
Texas-street bridge (over Stony brook). Rebuilt bridge. Carpenters	Lumber	•		•	•	•	٠				
Texas-street bridge (over Stony brook). Rebuilt bridge. Carpenters	Nails .	•		•		•		7	85	`	
Rebuilt bridge. Carpenters	/// a ord-			~ (-	04	. 1.	. 7. \			49	18
Carpenters			ortag	e (ov	er St	ony b	rook) •			
Lumber									F 0		
Ironwork				•	•	•		\$15	50		
West Newton-street bridge (over New York, New Haven, & Hartford Railroad, Providence Division. Sheathed roadway. Carpenters	Lumber		•								
West Newton-street bridge (over New York, New Haven, & Hartford Railroad, Providence Division. Sheathed roadway. Carpenters	Ironwork							2	40		
West Newton-street bridge (over New York, New Haven, & Hartford Railroad, Providence Division. Sheathed roadway. Carpenters	Nails .							7	50		
New Haven, & Hartford Railroad, Providence Division. Sheathed roadway. Carpenters										54	26
Division. Sheathed roadway. Carpenters											
Division. Sheathed roadway. Carpenters	New H	aven,	& H:	artfor	d Řa	ilroad	, Pre	ovide	nce		
Sheathed roadway. Carpenters							,				
Carpenters			7.								
Lumber								\$18	25		
Williams-street culvert (West Roxbury). Laid new deck, and sheathed roadway. Carpenters	Lumber		•	•	•	•	•				
Williams-street culvert (West Roxbury). Laid new deck, and sheathed roadway. Carpenters	Noila	•	•	•	• ′	٠	*	9	95		
Williams-street culvert (West Roxbury). Laid new deck, and sheathed roadway. \$4 50 Carpenters \$5 71 Nails 4 75 Woodman-street culvert (West Roxbury). Sheathed roadway. Carpenters \$18 00 Lumber \$18 59 Nails 3 30 Sundry expenditures on inland bridges. Labor on snow \$1,143 02 Labor, bridge-cleaners 221 67 Teaming snow 90 00 Sand for slippery walks 22 50 Salt 6 50 Lumber, sundry repairs 12 51 Nails 28 27 Paint 4 29 95 Hardware 16 87 Sundry car-fares, mechanics 120 00	rans .	•	•	•	•	•	•	4	20	0.1	00
Laid new deck, and sheathed roadway. Carpenters	Williams	e-stra	at en	lvart	(Wa	et Ro	whom			31	UU
Carpenters	Toid now do	3-811 C	et eu	antha	droce	St Ito	XDui,	у)•			
Nails 4 75 Woodman-street culvert (West Roxbury). Sheathed roadway. \$18 00 Carpenters 18 59 Lumber 3 30 Nails 3 30 Sundry expenditures on inland bridges. Labor on snow \$1,143 02 Labor, bridge-cleaners 221 67 Teaming snow 90 00 Sand for slippery walks 22 50 Salt 6 50 Lumber, sundry repairs 12 51 Nails 28 27 Paint 29 95 Hardware 16 87 Sundry car-fares, mechanics 120 00 Total expended on inland bridges \$6,712 36	Cannontone	ck, a	na sn	eathe	a road	away.		dh A	۲0		
Nails 4 75 Woodman-street culvert (West Roxbury). Sheathed roadway. \$18 00 Carpenters 18 59 Lumber 3 30 Nails 3 30 Sundry expenditures on inland bridges. Labor on snow \$1,143 02 Labor, bridge-cleaners 221 67 Teaming snow 90 00 Sand for slippery walks 22 50 Salt 6 50 Lumber, sundry repairs 12 51 Nails 28 27 Paint 29 95 Hardware 16 87 Sundry car-fares, mechanics 120 00 Total expended on inland bridges \$6,712 36	Carpenters	•	•	•	•	•					
Woodman-street culvert (West Roxbury). Sheathed roadway. Carpenters	Lumber								7		
Woodman-street culvert (West Roxbury). Sheathed roadway. Carpenters	Nails .				•	•	٠				
Sheathed roadway. Carpenters		•	٠		•	•	•	4	75		0.0
Nails 3989 Sundry expenditures on inland bridges. Labor on snow \$1,143 02 Labor, bridge-cleaners 221 67 Teaming snow 90 00 Sand for slippery walks 22 50 Salt 6 50 Lumber, sundry repairs 12 51 Nails 28 27 Paint 29 95 Hardware 16 87 Sundry car-fares, mechanics 120 00 Total expended on inland bridges \$6,712 36		٠	٠	٠	•	•	٠	4	75	44	96
Nails 3989 Sundry expenditures on inland bridges. Labor on snow \$1,143 02 Labor, bridge-cleaners 221 67 Teaming snow 90 00 Sand for slippery walks 22 50 Salt 6 50 Lumber, sundry repairs 12 51 Nails 28 27 Paint 29 95 Hardware 16 87 Sundry car-fares, mechanics 120 00 Total expended on inland bridges \$6,712 36	Woodma	n-str	· eet c	ulver	· t (W	est R	· oxbu	4 ry).	75	44	96
Nails 3989 Sundry expenditures on inland bridges. Labor on snow \$1,143 02 Labor, bridge-cleaners 221 67 Teaming snow 90 00 Sand for slippery walks 22 50 Salt 6 50 Lumber, sundry repairs 12 51 Nails 28 27 Paint 29 95 Hardware 16 87 Sundry car-fares, mechanics 120 00 Total expended on inland bridges \$6,712 36	Woodma Sheathed ro	n-str	· eet c	ulver	· t (W	est R	· oxbu	4 ry).	75	44	96
Nails 3989 Sundry expenditures on inland bridges. Labor on snow \$1,143 02 Labor, bridge-cleaners 221 67 Teaming snow 90 00 Sand for slippery walks 22 50 Salt 6 50 Lumber, sundry repairs 12 51 Nails 28 27 Paint 29 95 Hardware 16 87 Sundry car-fares, mechanics 120 00 Total expended on inland bridges \$6,712 36	Woodma Sheathed ro Carpenters	n-str	· eet c	ulver	· t (W	est R	· oxbu	4 ry).	75	44	96
Sundry expenditures on inland bridges. Labor on snow	Woodma Sheathed ro Carpenters Lumber	n-stroadway	eet c	ulver	· t (W	est R	· oxbu	4 ry). \$18	75 	44	96
Labor on snow	Woodma Sheathed ro Carpenters Lumber	n-stroadway	eet c	· ulver :	· t (W	est R	oxbu	4 ry). \$18	75 		
Total expended on inland bridges	Woodma Sheathed ro Carpenters Lumber Nails	n-stroadway	eet c	· ulver ·	et (W	est R	oxbu	4 ry). \$18 18 3	75 		
Total expended on inland bridges	Woodma Sheathed ro Carpenters Lumber Nails	n-streadway	eet c	ulver	• t (W	est R	oxbu	4 ry). \$18 18 3	75 00 59 30		
Total expended on inland bridges $\frac{120 00}{86,712 36}$	Woodma Sheathed ro Carpenters Lumber Nails	n-streadway	eet c	ulver	• t (W	est R	oxbu	4 ry). \$18 18 3	75 00 59 30		
Total expended on inland bridges $\frac{120 00}{86,712 36}$	Woodma Sheathed ro Carpenters Lumber Nails	n-streadway	eet c	ulver	• t (W	est R	oxbu	4 ry). \$18 18 3	75 00 59 30		
Total expended on inland bridges $\frac{120 00}{86,712 36}$	Woodma Sheathed ro Carpenters Lumber Nails	n-streadway	eet c	ulver	• t (W	est R	oxbu	4 ry). \$18 18 3	75 00 59 30		
Total expended on inland bridges $\frac{120 00}{86,712 36}$	Woodma Sheathed ro Carpenters Lumber Nails	n-streadway	eet c	ulver	• t (W	est R	oxbu	4 ry). \$18 18 3	75 00 59 30		
Total expended on inland bridges $\frac{120 00}{86,712 36}$	Woodma Sheathed ro Carpenters Lumber Nails	n-streadway	eet c	ulver	• t (W	est R	oxbu	4 ry). \$18 18 3	75 00 59 30		
Total expended on inland bridges $\frac{120 00}{86,712 36}$	Woodma Sheathed ro Carpenters Lumber Nails	n-streadway	eet c	ulver	• t (W	est R	oxbu	4 ry). \$18 18 3	75 00 59 30		
Total expended on inland bridges $\frac{120 00}{86,712 36}$	Woodma Sheathed ro Carpenters Lumber Nails	n-streadway	eet c	ulver	• t (W	est R	oxbu	4 ry). \$18 18 3	75 00 59 30		
Total expended on inland bridges $\frac{120 00}{86,712 36}$	Woodma Sheathed ro Carpenters Lumber Nails	n-streadway	eet c	ulver	• t (W	est R	oxbu	4 ry). \$18 18 3	75 00 59 30		
Total expended on inland bridges $\frac{120 00}{86,712 36}$	Woodma Sheathed ro Carpenters Lumber Nails	n-streadway	eet c	ulver	• t (W	est R	oxbu	4 ry). \$18 18 3	75 00 59 30		
Total expended on inland bridges \$6,712 36	Woodma Sheathed ro Carpenters Lumber Nails Sundry of Labor on sn Labor, brid, Teaming sn Sand for sli Salt '' Lumber, su Nails Paint Hardware	expension of the control of the cont	eet c	ees or	t (W	est R	oxbu	\$18 18 3 	75 00 59 30 02 67 00 50 50 51 27 95 87		
	Woodma Sheathed ro Carpenters Lumber Nails Sundry of Labor on sn Labor, brid, Teaming sn Sand for sli Salt '' Lumber, su Nails Paint Hardware	expension of the control of the cont	eet c	ees or	t (W	est R	oxbu	\$18 18 3 	75 00 59 30 02 67 00 50 50 51 27 95 87	39	89
	Woodma Sheathed ro Carpenters Lumber Nails Sundry of Labor on sn Labor, brid, Teaming sn Sand for sli Salt '' Lumber, su Nails Paint Hardware	expension of the control of the cont	eet c	ees or	t (W	est R	oxbu	\$18 18 3 	75 00 59 30 02 67 00 50 50 51 27 95 87	39	89
	Woodma Sheathed ro Carpenters Lumber Nails Sundry (Labor on sn Labor, bridg Teaming sn Sand for sli Salt ' Lumber, sun Nails Paint Hardware Sundry car-	n-streadway cadway cadway cow ge-clesow ppery cadry r cadres,	eet c	ces or	t (W	est R	oxbu	\$18 18 3 	75 00 59 30 02 67 00 50 50 51 27 95 87 00	1,691	89

RECAPITULATION.

Table showing Expenditures on the Inland Bridges for the Year February 1, 1894, to January 31, 1895.

Name of Bridge.						Lui	epairs, Labor, mber, Ironwork, and Painting.
Albany street .							\$11 38
Ashland street .º						۰	111 50
Baker street (culvert)							91 55
Beacon street (over Bos	ton	& A.	lbany I	Railro	ad)		186 16
Berkeley street "	6	6.6	66	6.6	,		. 135 52
Berkeley street (over N	.Y.,	N.E	I., & F	I. Rai	ilroa	d,	
Providence Division)							61 70
Blakemore street .							27 64
Bolton street							9. 98
Boylston street (over Bo	ostor	1 & .	Albany	Rail	road)		207 66
Broadway				6	6	•	185 03
Columbus avenue.							175 44
Commonwealth avenue	(ove	r out	tlet)				290 70
Cornwall street .							60 16
Cottage Farm .							233 80
Cottage street .				•		• 1	979 44
Elmwood street .		٠	• .				46 10
Ferdinand street .							78 99
Gardner street (culvert)	۰	•				39 85
Huntington avenue			۰	4			206 87
Hyde Park avenue.							248 37
Keyes street (culvert)							. 70 45
Linden Park street		٠					89 42
Longwood avenue.			•				84 93
Massachusetts avenue	(ov	er	Boston	. &	Alb	any	
Railroad)						۰	113 75
Massachusetts avenue			N.Y.,	N.H.	, &	H.	
Railroad, Providence	Div	rision	n) .	•			105 09
Mattapan			•	0			36 26
Shawmut avenue .						1,	854 04
Summer street (culvert)							49 18
Texas street							54 26
West Newton street				٠			91 00
Williams street (culvert							44 96
Woodman street (culve	rt)						39 89
Sundry expenditures				•			1,691 29
Total						٠	\$6,712 36

REGULAR MAINTENANCE EXPENSES AT NORTH AND SOUTH YARDS.

NORTH YARD, DISTRICT No. 1.

	W	arre	n Bri d	ge.				
Messenger					\$797	68		
Watchmen					1,208	00		
Tools for carpenters					86	99		
Tools for painters.					3	60		
CTT 1 1					156	00		
Gas					41	86		
Plumbing					42	03		
Rubber hose					13	80		
New doors					13	00		
Water					10	00		
Ice					6	00		
Small supplies .					10	65		
* *							\$2,389	61
:	STABLE	, Di	STRICT	No	. 1.			
Teamster					\$780	00		
Hostler					631	75		
Feed					330	81		
Repairing vehicles					128	82		
Repairing harnesses					71	15		
Horseshoeing .					112	29		
Concord wagon .					200	00		
Pung					65	00		
Clipping horses . Water					15	00		
Water					10	00		
Dentistry					3	00		
Small supplies .					97	04		
						_	2,444	86
Total expended,	North	Yar	d and	Stal	ole .		\$4.834	47

SOUTH YARD, DISTRICT No. 2.

			F	ound	ry Str	eet.		
Messenge	r .						\$748	94
Watchman	n .						735	00
Yardman							420	00
Tools for	carper	iters					297	42
Tools for	painte	rs.					163	65
Telephone							156	00
Coal .							29	96
Building of	closet :	and lo	ckers				24	50
Repairing							25	20
Ladders			•				10	00
Cana	ad fam							CF

Carried forward,

\$2,610 67

Brought forward,				9	\$2,610 67	
Falls			۰	. `	10 95	
Repairing hydraulic j	acks	•			35 60	
Shovels			•		12 00	
Ice chisels			٠		7 50	
Water			٠		10 00	
Water Ice					6 00	
Ice Small supplies .			٠		33 00	
• •						\$2,725 72
		T)		3.7	^	
	TABLE	E, Dis	TRICT	No.	2.	
Teamster					\$737 50	
					735 00	
Feed		4			$683 \ 33$	
Repairing wagons.					931 16	
Repairing buggies.		•			294 85	
Repairing sleighs .			٠	٠	73 25	
Horseshoeing .			۰		229 00	
Three horses.					745 00	
Clipping horses .					18 00	
Rent of stable .		•		•	600 00	
Coal		•			19 06	
Veterinary service		•			34 00	
Repairing harnesses					275 90	
Repairing harnesses New harnesses English Vegetable for Colic medicine					295 00	
English Vegetable for	od	٠,			75 00	
Colic medicine .	•				15 00	
Colic medicine . Small supplies .	٠			•	231 50	× 000 × ×
						5,992 55
Total expended,	South	Vord	and	Stobl	0	\$8 718 97
Total expended,	South	Land	and	Stabi		\$0,110 21
SPEC	TAL	APP	ROP	RIAT	TIONS.	
Broadway bridge	(ove	r Fort	-Poir	it cha	nnel).	
Sundry repairs on ma	chine	ry.			#400.05	
Ironwork Transferred to bridg		۰	۰		\$499 37	
Transferred to bridg	ge 11	mprov	emen	its,	501 55	
Wards 12 and 13,	June .	4, 189	4	•	501 77	
Total						\$1,001 14
Total	•	•	•	•		\$1,001 14
D T.			. 77	r	10 1	0
Bridge IM						.ð.
Broadway bridge					nnel).	
General repairs on dr	aw m	achine	ry, r	ew		
centre, etc.						
Ironwork					\$431 23	
Carpenters					70 54	
(7)						A = 0 + = =
Total expended	•		•	•		\$501 77

Berwick Park footb & H. R.R., Providence Erected footbridge and but Advertising Inspector Contract with Quimby & work done and material retaining-walls . Contract with D. H. And done and material furnishing and erecting wick park	ce Divisional retaining Ferguson al furnished for shed, remonstreet an same at	n). ng-walls	\$39 17 176 00 200 00		
Total expended . Transferred to City Nu January 31, 1895 .	rsery and	Green-h	ouses,	\$5,115 884	
Appropriation				\$6,000	00
Boylston-street bridg Railroad). Built new iron fence. Erecting fence		•		\$1,094	00
Transferred to surface dr cember 3, 1894 Transferred to City Nurse	rain, Boyl	ston stre	et, De-	1,600	
Transferred to City Nurse uary 31, 1895	ery and G	reenhouse ·	es, Jan-	38	82
Appropriation				\$2,732	
Chelsea-street bridge to Chelsea). Rebuilt by B. F. Nay & C Top sheathing done by Br	Co. ridge Divis	sion.			
Advertising Inspector		• ঝ	$ \begin{array}{ccccccccccccccccccccccccccccccccc$		
Specifications			59 22		
Contract with B. F. Nay	& Co. for				
done and material furni					
bridge (except iron dra	w)	. 10.	,808 60		
Carpenters	· mill ma		167 00		
Inspecting and testing at for iron draw	- шш ma	tertai	23 81		
		•			
Total expended				\$11,585	
Balance		•		18,414	92
Appropriation				\$30,000	00
[W	ork uncom	pleted.]			

Commonwealth avenue. Built sidewalk and fence.	
Our sidewark and rence.	
Carpenters	
Lumber	
Nails	
Car-fares 67 00	
Lumber	
Charged to Commonwealth avenue	\$2,954 15
Broadway bridge (over Fort-Point channel).	
Ironwork	. \$121 06
Congress-street bridge (over Fort-Point channel).	
Ironwork \$1.507 16	
Ironwork \$1,507 16 Two upright boilers, special pattern . 1,000 00	
Setting same connections valves emplo-	
Setting same, connections, valves, smoke- burners, etc 400 00	
burners, etc 400 00	0.007.10
	2,907 16
Federal-street bridge (over Fort-Point channel)	•
Plumbing	
Ironwork	
Plumbing	309 72
L-street-bridge (over Reserved channel). Two spar buoys \$94 00 Two 6-ton mooring-stones 210 00	
Two spar buoys	
Two 6-ton mooring-stones 210 00	
	304 00
Mt. Washington-avenue bridge (over Fort-Point	
channel).	
Repairing fender-guard \$184 00	
Repairing lender-guard	
Iron-work	100 00
	196 88
Congress street.	
Completed the fence and sidewalk. Carpenters	
Carpenters	
Painters	
Lumber 821 63	
Nails	
	2,747 88
Charged to Street Improvements, Aldermanic Dis-	00 500 50
trict No. 6	\$6,586 70
Williams-street bridge (over Stony brook).	
Rebuilt the bridge.	
Carnenters \$144 00	
Carpenters	
Naile 15.45	
Nails	
Charged to Street Improvements, Aldermanic Dis-	0944 09
trict No. 11	\$344 93

L street Overhauling shaft, rep steam-put Charged to	g eng pairin mp.	gine, g fen	machi ce, di	inery, raw-la	wine tch,	dlass-land co	head a	ing	\$291	58
Granite Repaired m							lton).		\$128	90
Mattapai Repaired ro Lumber	adwa	V.					filton		21	47
Neponse New deck.	t bri	dge	(from	Dore	heste	r to M	Tilton)			
Lumber Ironwork		•	•		•		\$438 204	20	642	45
Charged to	Stree	[Set Im]	ee reg prove	gular : ments	appro , Wa	priati rd 24	on.]	٠	\$792	82
Brookling bany B			brid	lge (over	Bosto	on & .	Al-		
Laid new de	eck a	nd sh					l pain	ted		
Carpenters							\$ 727	75		
Painters							413			
Lumber							998			
Ironwork		4	٠			0	4			
Hardware			۰	•		•	31			
Nails .	•	٠	•	•	•		47			
Paint stock		•	•	•	٠	٠	71			
Car-fares	•	•	•	•	•	•	4	90	¢0.901	1.5
Common [For desc priation.]									\$2,301	10
Lumber .	۰	•		٠	•	•	•		240	59
Charged to	Stree	et Imp	prove	ments	, Wa	rds 19	and	22,	\$2,541	74
Florence Rebuilt brid [Balance	ge, s	idewa	ılks, a	and fe	nce.	· ·				
Carpenters		•	•	· be p			•		\$759	24
Charged to	Stree	t Imp	orovei	nents	, Wa	rds 28	and 2	25,	\$759	24

RECAPITULATION.

Amounts	charge	ed to	Speci	al A	ppropr	iatio	ons:			
Broadway									\$499	37
Bridge Imp	rovem	ents,	Ward	s 12	and 18	3.			501	77
Berwick Pa									5,115	17
Boylston-st	reet Br	ridge							1,094	00
Chelsea-str	eet Bri	dge,	rebuil	ding					11,585	08
Commonwe	alth av	enu	е .						2,954	15
Street Imp									6,586	70
6.6	6.6		61		6.6		" 11		344	93
6.6	6.6		Ward	14.					291	58
6.6	6.6		Ward	24	•				792	82
6 6	6.6		Wards	19 a	and 22			٠	2,541	74
4.6	6.6		Wards	s 23 a	and 25				759	24
Tota	ıl.		•		•			•	\$33,066	55

LIST OF BOSTON BRIDGES.

I. — BRIDGES WHOLLY SUPPORTED BY BOSTON.

[In the list those marked with an asterisk are over navigable waters, and are each provided with a draw.]

Agassiz road, in Back Bay Fens.

Allston, over Boston & Albany Railroad at Cambridge street, Brighton.

Ashland street, over N. Y., N. H., & H. Railroad, Providence Division, West Roxbury.

Athens street, over N. Y. & N. E. Railroad.

Audubon road, over Boston & Albany Railroad, Brookline Branch. Beacon entrance, Back Bay Fens, over Boston & Albany Railroad.

Beacon street, over outlet to Back Bay Fens.

Beacon street, over Boston & Albany Railroad. Berkeley street, over Boston & Albany Railroad.

Berkeley street, over N. Y., N. H., & H. Railroad, Providence Division.

Berwick-park (foot) bridge, over N. Y., N. H., & H. Railroad, Providence Division.

Blakemore street, over N. Y., N. H., & H. Railroad, Providence Division, West Roxbury.

Bolton street, over N. Y. & N. E. Railroad.

Boylston street, over Boston & Albany Railroad.

Boylston street, over outlet to Back Bay Fens.

*Broadway, over Fort-Point channel.

Broadway, over Boston & Albany Railroad.

Brookline avenue, over Boston & Albany Railroad.

Byron street, over Boston, Revere Beach, & Lynn Railroad. *Castle Island, from Marine park, South Boston, to Castle Island.

*Charles river, from Boston to Charlestown.

*Chelsea (South), over South channel, Mystic river.

*Chelsea street, from East Boston to Chelsea.

Columbus avenue, over Boston & Albany Railroad.

*Commercial Point, or Tenean, Dorchester.

Commonwealth avenue, over outlet to Back Bay Fens.

*Congress street, over Fort-Point channel.

Cornwall street, over Stony brook, West Roxbury.

Cottage Farm, over Boston & Albany Railroad, at Commonwealth avenue.

Cottage-street footbridge, over flats, East Boston.

Dartmouth street, over Boston & Albany, and Providence Divsion of N. Y., N. H., & H. Railroad.

*Dover street, over Fort-Point channel.

*Federal street, over Fort-Point channel.

Fen, Back Bay Fens.

Ferdinand street, over Boston & Albany Railroad.

Florence street, over Stony brook, West Roxbury.

Gold-street footbridge, over N. Y. & N. E. Railroad.

Huntington avenue, over Boston & Albany Railroad.

Irvington-street footbridge, over N. Y., N. H., & H. Railroad, Providence Division.

*L street, over Reserved channel at junction of Congress and L streets.

Leyden street, over Boston, Revere Beach, & Lynn Railroad.

Linden Park street, over Stony brook.

*Malden, from Charlestown to Everett.

Massachusetts avenue, over Boston & Albany Railroad.

Massachusetts avenue, over N. Y., N. H., & H. Railroad, Providence Division.

*Meridian street, from East Boston to Chelsea.

*Mt. Washington avenue, over Fort-Point channel.

Neptune road, over Boston, Revere Beach, & Lynn Railroad.

Public Garden footbridge.

Shawmut avenue, over Boston & Albany Railroad.

Stony brook, Back Bay Fens.

Swett street, east of N. Y. & N. E. Railroad.

Swett street, west of N. Y. & N. E. Railroad.

*Warren, from Boston to Charlestown.

West Newton street, over N. Y., N. H., & H. Railroad, Providence Division.

West Rutland-square footbridge, over N. Y., N. H., & H. Railroad, Providence Division.

Winthrop, from Breed's Island to Winthrop.

II. — BRIDGES OF WHICH BOSTON SUPPORTS THE PART WITHIN ITS LIMITS.

*Cambridge street, from Brighton to Cambridge.

Central avenue, from Dorchester to Milton.

*Chelsea (North), from Charlestown to Chelsea.

*Essex street, from Brighton to Cambridge.

*Granite, from Dorchester to Milton.

Longwood avenue, from Roxbury to Brookline.

Mattapan, from Dorchester to Milton.

Milton, from Dorchester to Milton.

*Neponset, from Dorchester to Quincy.

*North Beacon street, from Brighton to Watertown.

*North Harvard street, from Brighton to Cambridge.

Spring street, from West Roxbury to Dedham.

*Western avenue, from Brighton to Cambridge.

*Western avenue, from Brighton to Watertown.

III. — BRIDGES OF WHICH BOSTON PAYS A PART OF THE COST OF MAINTENANCE.

Albany street, over Boston & Albany Railroad.

Dorchester street, over N. Y., N. H., & H. Railroad, Plymouth and Taunton Division.

Everett street, over Boston & Albany Railroad, Brighton.

*Harvard, from Boston to Cambridge.

•*Canal, from Boston to Cambridge.

*Prison Point, from Charlestown to Cambridge.

*West Boston, from Boston to Cambridge.

The last four bridges are in the care of two Commissioners, one of whom is appointed by the City of Cambridge and the , other by the City of Boston.

IV. -- Bridges supported by Railroad Corporations.

1st. - Boston & Albany Railroad.

Harrison avenue.

Market street, Brighton.

Tremont street.

Washington street.

2d. — Boston & Maine Railroad, Eastern Division.

Mystic avenue.

Main street.

3d. - Boston & Maine Railroad, Western Division.

Mystic avenue.

Main street.

4th. — Boston, Revere Beach, & Lynn Railroad.

Everett street.

5th. — New York & New England Railroad.

Dorchester avenue.

Harvard street, Dorchester.

Morton " 66 6.6 Norfolk

Norfolk 66 66

Silver street.

Washington street, Dorchester.

West Broadway.

West Fifth street.

West Fourth street.

West Second street.

West Sixth street.

West Third street.

6th. — New York, New Haven, & Hartford Railroad, Plymouth and Taunton Division.

Adams streeet.

Ashmont street and Dorchester avenue.

Cedar Grove Cemetery.

Freeport street.

Savin Hill avenue.

7th. — New York, New Haven, & Hartford Railroad, Providence Division.

Beech street, West Roxbury.
Bellevue street, West Roxbury.
Canterbury street, West Roxbury.
Centre street, or Hog Bridge, West Roxbury.
Centre and Mt. Vernon streets, West Roxbury.
Dudley avenue, West Roxbury.
Park street, West Roxbury.

RECAPITULATION.

	Number wholly supported by Boston	57
II.	Number of which Boston supports the part within its	
	limits	14
III.	Number of which Boston pays a part of the cost of	
	maintenance	7
IV.	Number supported by railroad corporations:	
	1. Boston & Albany	4
	2. Boston & Maine, Eastern Division	2
	3. " Western Division	2
	4. Boston, Revere Beach, & Lynn	1
	5. New York & New England	13
	6. New York, New Haven, & Hartford, Plymouth	
	and Taunton Division	5
	7. New York, New Haven, & Hartford, Provi-	
	dence Division	7
	Total number	112

The existing regulations for the passage of vessels through drawbridges have been posted on the several bridges, as required

by law.

The records of the number of draw openings, vessels passing through the bridges, time of passage, kind of vessels, number laden with cargo, etc., as kept by the draw-tenders of the several bridges, have been tabulated, and the totals are given in the summary, which will be found in Appendices A1 and A6.

A list of widths of openings for vessels in all bridges provided with draws in the city, measurements being furnished by the City

Engineer, will be found in Appendix A2.

Appendix A3 is a table, also made by the City Engineer, showing widths of bridges, kind of roadways, sidewalks, etc.

A list of culverts and small bridges will be found in Appendix

Appendix A5 contains a tabulated statement of traffic.

APPENDIX A1.

DRAW-TENDERS' REPORTS.

Giving the Number of Vessels passing through the Drawbridges controlled by the City of Boston, from February 1, 1894, to January 31, 1895.

												the second second second		-			
	<u>σ</u>	STEAMERS.	RS.	SAILI	SAILING VESSELS.	SELS.		Tues.	1	ALL	OTHERS.	RS.	TOTAL	TOTAL NO. VESSELS.	SSELS.	Total	Total No of
· NAME OF BRIDGE.	By Day.	By Night.	By Total.	By Day.	By Total.	Total.	By Day.	By To	Total.	By Day.	By T	Total.	By Day.	By Night	Total.	Car-	Open- ings.
Broadway	4	2	9	1,888	915	2,800	1,641	294	1,935	594	201	795	4,127	1,409	5,536	1,761	4,146
Cambridge street				100	6	109	482	41	523	190	Iõ	205	772	65	837	. 146	529
Charles river	16	18	34	1,745	758	2,503	2,315	627	2,942	1,718	553	2,271	5,794	1,956	7,750	2,303	5,534
Chelsea (North)	59	2	99	1,023	118	1,141	3,469	372	3,841	1,395	236	1,631	5,946	733	6,679	1,134	4,566
Chelsea (South)	46	10	51	767	83	850	1,718	92	1,810	1,030	53	1,083	3,561	233	3,794	1,083	2,935
Chelsea street	9	•	9	55	2	57	131	28	159	84	32	116	276	62	338	34	105
Commercial point	•		•			1	•			resi		1	1		2	2	, 2
Congress street	200	22	277	3,107	973	4,080	6,420	1,206	7,626	2,282	568	2,850	12,009	2,824	14,833	3,243	7,647
Dover street	20		9	1,619	736	2,355	1,326	231	1,557	532	179	711	3,482	1,147	4,629	1,702	3,750
Essex street	- 3		4	123	11	134	809	31	639	236	∞ ∞	244	970	51	1,021	204	999

4,937	227	2,341	1,367	4,083	6,042	250		170	4,376	426	52		54,151
1,964	09	798	430	1,639	2,774	69	•	20	1,731	117	11		21,255
6,100	339	4,971	2,168	7,011	10,547	369	•	268	2,967	929	55		83,890
1,635	4	1,093	246	1,004	2,612	22		18	2,176	45	2		17,338
4,465	335	3,878	1,922	200,9	7,935	347	•	250	3,791	631	53		66,552
816	37	1,535	574	2,088	2,246	40	•	36	1,699	153	20	İ	4,100 19,151
226		399	99	343	653	C)		5	547	13			4,100
590	37	1,136	508	1,745	1,593	88		31	1,152	140	19		15,051
2,261	220	2,754	1,226	4,030	4,782	224	•	168	2,124	426	28		39,275 15,051
381	ಣ	531	142	585	206	6	•	11	628	27			6,143
1,880	217	2,223	1,084	3,448	3,875	215		157	1,496	300	28		33,132
3,017	82	678	360	846	3,432	105		64	2,081	95	2		24,797
1,026		163	36	29	1,037	11		2	696	ũ	-		6,921
1,991	81	515	324	412	2,395	94		62	1,112	06	9		17,876
9		4	00	47	87		•		63	0	:		299
			2	12	15		•		32				174
4		4	9	35	72		•		31	2			493
•		•			avenue			et		to Cambridge,	o Watertown,		
Federal street	Granite	L street	Malden	Meridian street	Mt. Washington avenu	Neponset	No. Beacon street	No. Harvard street	Warren	Western avenue to Cambridge,	Western avenue to Wa		Totals

Norg. - West Boston, Prison Point, Canal (or Craigie's), and Harvard bridges are not included in these tables, being in the care of commissioners representing the two cities (Boston and Cambridge), connected by these bridges.

APPENDIX A2.

Table showing the Widths of Openings for Vessels in all Bridges provided with Draws, in the City of Boston, January 31, 1895.

		r of ings.				
Name of Bridge.	Location.	Number of Openings		Wi	idtł	1.
Boston & Maine R.R., Eastern Division	Boston to Charlestown .	1	39	feet	8 i	nches.
Boston & Maine R.R., Eastern Division	Over Miller's river	1	35	66	6	66
Boston & Maine R.R. (freight), Southern Division	Boston to East Cambridge	1	40	66	2	-66
Boston & Maine R.R. (passenger), Southern Division	66 66 × 66 66	1	39	6.6	7	66
Boston & Maine R.R., Western Division	Boston to Charlestown .	1	39	66	7	66
Boston & Mainé R.R., Western Division	Over Miller's river	1	35	"	10	66
Broadway	Over Fort Point channel,	1	43	46	3	66
Cambridge street	Brighton to Cambridge.	1	36	66	3	66
Canal (or Craigie's)	Boston to East Cambridge	1	36	66	1	66
Charles river	Boston to Charlestown .	1	36	66	0	66
Chelsea (south channel)	Charlestown to Chelsea.	1	38	44	9	66
Chelsea (north channel)		1	44	"	10	"
Chelsea st. (East Boston side)	East Boston to Chelsea.	2	36	66	0	66
" " (Chelsea side)			36	6.6	0	66
Commercial point (or Tenean)	Dorchester	1	24	66	0	66
Congress street (Boston side)	Over Fort Point channel,	2	43	66	3	66
" (South Boston side).	cc cc cc cc		43	"]	11	66
Dover street			36	66]	10	66
Essex street	Brighton to Cambridge.	1	35	66	9	66
Federal street	Over Fort Point channel,	1	41	"]	10	66
Fitchburg R.R	Boston to Charlestown .	1	36	66	0	44
" (for teaming freight)		1	36	66	0	66

Table showing Width of Openings, etc. — Concluded.

Name of Bridge.	Location.	Number of Openings.	Width.
Grand Junction R.R	Brighton to Cambridge.	1	35 feet 9 inches.
	East Boston to Chelsea.	1	34 " 6 "
Granite	Dorchester to Milton	1	36 " 0 "
Harvard (Boston side)	Boston to Cambridge	2	36 " 6 "
" (Cambridge side)	66 66 66		36 " 8 "
L street	Over Reserved channel, South Boston	1	40 " 0 "
Malden	Charlestown to Everett.	1	43 " 4 "
Meridian st. (East Boston side)	East Boston to Chelsea.	2	59 " 2 "
" (Chelsea side)	66 66 66 66		59 " 0 "
Mt. Washington ave. (Boston side).	Over Fort Point channel,	2	42 " 3 "
" " (South Boston side)	66 65 66 66		42 " 3 "
Neponset	Dorchester to Quincy	1	36 " 0 "
New York & New England R.R. (Boston side)	Over Fort Point channel,	2	41 " 10 "
New York & New England R.R. (South Boston side)	., ., ., .,		40 " 11 "
New York & New England R.R	Over South Bay	1	28 " 4 "
North Beacon street	Brighton to Watertown.	1	30 " 2 "
North Harvard street	Brighton to Cambridge.	1	36 " 0 "
New York, New Haven, & Hartford R.R	Over Fort Point channel,	1	36 " 4 "
New York, New Haven, & Hartford R.R.	Dorchester to Quincy	1	36 " 0 "
Prison Point	Charlestown to Cambridge	1	36 " 0 "
Warren	Boston to Charlestown .	1	36 " 2 "
West Boston (Boston side)	Boston to Cambridge	2	36 " 6 "
" (Cambridge side)			36 " 1 "
Western avenue	Brighton to Cambridge.	1	36 " 0 "
	Brighton to Watertown,	1	35 " 10 "

APPENDIX A3.

Table showing Width of Bridges, kind of Roadways, Sidewalks, etc., on Tide-water Bridges, January 31, 1895.

	idge.	Ъ	ROADWAY.		Sı	DEWALKS.
NAME OF BRIDGE.	Width of Bridge.	Width.	Kind of roadway.	No.	Width.	Kind of walks.
	Ft. In.	Ft. In.			Ft.In.	
Broadway	60 0	40 0	Plank	2	10 0	Coal-tarconcrete.
Cambridge street	40 0	33 2		1	6 0	Plank.
Canal	64 0	48 0	Paved	2	8 0	Brick.
Charles river	50 0	34 0		2	8 0	66
Chelsea, North	49 0	40 0		1	8 0	Coal-tarconcrete.
" South	50 0	37 0	"	2	6 6	66 66
street	30 0	23 2	Plank	1	6 0	Plank.
Commercial point	about 34 0	about 27 0		0		
Congress street	60 0	44 0	Paved	2	8 0	Coal-tarconcrete.
Dover street (over water) .	60 0	40 0		2	10 0	Asphalt.
Essex street	31 0	22 8	Plank	1	7 6	Plank.
Federal street	69 0	49 0	Paved	2	10 0	Asphalt.
Granite	30 2	24 4	Plank	1	5 0	Plank.
Harvard	69 4	51 0		2	9 2	Asphalt.
L street	60 0	44 0	Paved	. 2	8 0	66
Malden	40 0	32 0	"	. 1	7 0	Coal-tarconcrete.
Meridian street	50 0	36 0	66	. 2	7 0	"
Mt. Washington avenue	61 0	39 6		. 2	10 9	46 66
Neponset	30 0	23 10	Plank	, 1	5 5	Plank.
North Beacon street	31 0	25 2	"	. 1	5 0	6.6
North Harvard street	28 2	26 7	"			
Prison Point	50 0	36 0	Plank part Paved part	} 2	2 7 0	Coal-tarconcrete
Warren	80 0	60 0	Paved		10 0	66 66
W. avenue to Cambridge	33 2	26 3	Plank		6 0	Plank.
" " Watertown .	33 0	24 2			8 0	66
Winthrop	24 2	19 10			3 7	6.6
West Boston	50 0	36 0	Paved	1 6	2 7 0	Brick.

APPENDIX A4.

List of Culverts and Small Bridges. Those marked with (*) are over Stony brook.

LOCATION.	Span.	Height of Opening.	Length.	Side-walls.	Covering.	Depth of Covering. Feet.
Adams street, south of Park, Dorchester	5.0	4.0	29	Stone	Stone	5.0
*Amory street, near Centre, West Roxbury	. each 9.0	each 8.0	35	Double stone arch	Stone	8.0
*Ashland and Canterbury streets, West Roxbury	7.0	4.0	25	Stone arch	Stone	3.0
*Ashland street and Canterbury, West Roxbury	9.2	5.5	75	Stone	Wood.	
Ashland street, near Florence, West Roxbury	3.0	3.0	20	Stone	Stone	6.0
Ashland street, 200 feet from Canterbury, West Roxbury	3.0	3.0	20	Stone	Stone	3.0
Back street, near Morton, Dorchester	5.0	4.0	30	Stone	Stone	2.0
Baker street, at Brook farm, West Roxbury	15.0	5.0	30	Stone	Wood.	
Baker street, opposite Prospect avenue, West Roxbury	2.67	2.67	09	Stone	Stone	1.0
Beech street, near Anawan avenue, West Roxbury	4.0	4.0	20	Stone	Wood.	
Beech street, near Poplar, West Roxbury	1.5	2.5	40	Stone	Stone	5.0
Blue Hill avenue, Dorchester	2.75	1.67	225	Stone	Stone	2.0
Blue Hill avenue, near Morton street, Dorchester	0.0	0.7	09	Stone	Wood.	
*Boylston avenue, West Roxbury	15.0	9.5	30	Stone	Wood.	

List of Culverts and Small Bridges. - Continued.

Depth of Covering. Feet.		1.25	8.0	4.0	3.0	8.5	3.0	5.0	4.0	5.0	4.5	3.0	2.0	2.0	2.5	4.0
Covering.	Brick.	Stone	Wood and earth.	Stone	Stone	Stone	Stone	Stone	Stone	Stone	Stone	Stone	Stone	Stone	Stone	Stone
Side-walls.	Double brick arch. Brick,	Stone	bood	Stone	Stone arch	Stone	Stone	Stone	Stone arch	Stone	Stone	Stone	Stone	Stone	Stone	Stone arch
Length.	47	20	90	40	42	20	50	20	20	90	09	65	45	65	130	. 09
Height of Opening Feet.	9.0 & 8.0	3.0	3.0	3.0	5.0	2.5	4.0	3.0	4.0	3.0	2.5	4.5	3.0	2.0	3.5	4.83
Span. Feet.	each 7.0	3.5	3.0	2.0	10.0	2.5	4.0	2.5	4.0	1.5	2.5	2.67	2.5	3.0	3.5	4.0
LOCATION.	*Boylston street, at Boylston Station, West Roxbury	Brighton avenue, west of Babcock street, Brighton	Brighton avenue, west of Essex street, Brighton	Canterbury street, near Morton, West Roxbury	Canterbury street, near Neponset avenue, West Roxbury	Canterbury street, near Poplar, West Roxbury	Centre street, near Spring, West Roxbury	Centre street, near Walter, West Roxbury	Centre street, at Williams farm, West Roxbury	Centre street, at Williams farm, West Roxbury	Centre street, corner of Willow, West Roxbury	Church street, west of Weld, West Roxbury	Corey street, near Highland station, West Roxbury	Everett street, near B. & A. R.R., Brighton	Faneuil street, junction of Brooks, Brighton	Faneuil, west of Parsons, Brighton

Gardner street, near Cow island, West Roxbury	5.0	5.5	33	Wood Wood.	Wood.	
*Green street, at Brookside avenue, West Roxbury	each 10.0	7.0 & 8.0	260	Double stone arch,	Stone	4.0
Harvard avenue, near Washburn street, Brighton	2.67	3.0	58	Stone	Stone	0.9
Harvard avenue, south of Washburn street, Brighton	2.75	3.75	55	Stone	Stone	4.0
*Hyde Park avenue and Washington street, West Roxbury	each 8.0	each 7.0	501 & 93 each. 454	Double stone and brick arch }	Brick and stone,	5.0
*Hyde Park avenue, West Roxbury	19.5	5.0	20	Stone	Wood.	
La Grange street, corner of Pleasant, West Roxbury	3.0	2.0	70	Stone	Stone	1.0
La Grange street, north-east of Weld, West Roxbury	3.0	1.5	06	Stone	Stone	1.5
La Grange street, opp. Mt. Benedict cemetery, West Roxbury	2.0	2.5	50	Stone	Stone	2.0
La Grange street, south-east of Weld, West Roxbury	2.0	3.0	20	Stone	Stone	3.0
Lake street, opposite Chandler's pond, Brighton	4.5	4.92	43.85	Stone (double) .	Stone	2.0
Lake street, south of Washington, Brighton	5.5	5.92	40	Stone (double) .	Stone	1.2
Mill street, Dorchester	each 6.75	each 9.5	20	Double stone arch,	Stone	5.0
Morton street, near Austin farm, West Roxbury	4.0	5.0	50	Stone	Stone	2.0
*Morton street, near Washington, West Roxbury	15.0	10.0	20	Stone arch	Stone	4.0
*Mount Hope street, West Roxbury	each 8.0	each 5.0	40	Double stone arch,	Stone	3.0
Mount Hope street, West Roxbury	5.0	4.0	40	Stone arch	Stone	2.0
Neponset avenue, Dorchester	2.5	2.5	09	Wood	Earth and wood,	7.17
Neponset avenue, 500 feet from Hyde Park avenue, West Roxbury .	5.0	4.0	40	Stone arch	Stone	2.0
*Neponset avenue, West Roxbury	14.0	0.9	45	Stone arch	Stone	2.5

List of Culverts and Small Bridges. - Concluded.

Depth of Covering.	3.0	1.6			15.0	4.0	4.5	5.0	4.3	4.67	1.25	0.9	. 1.5 & 3.5			6.5
Covering.	Stone	Stone and brick,	Wood.	Wood.	Stone	Stone	Stone	Stone	Wood and earth,	Stone	Stone	Brick	Brick	Wood.	Wood.	Earth and wood,
Side-walls.	Stone	Stone (double) .	Stone	Stone	Stone	Stone arch	Stone	Stone arch	Wood	Stone	Stone	Oval brick	Double stone	Stone	Stone	wood.
Length.	40	39.5	50	20	40	40	110	40	40	140	50	50	30	63	40	40
Height of Opening.	2.67	5.5	3.67	5.0	4.0	4.0	1.5	4.0	5.08	2.75	2.5	0.9	3.5 & 1.5	2.67	4.5	6.25
Span. Feet.	4.0	0.9	5.0	8.5	4.0	5.0	3.0	7.0	0.6	2.17	3.25	5.0	. 4.5 & 2.0	2.67	4.0	6.25
LOCATION.	North Harvard street, near Franklin, Brighton	Oakland street, south of Faneuil, Brighton	Park street, west of Dorchester avenue, Dorchester.	Park street, west of N.Y., N.H., & H. R.R., Dorchester	Parsons street, north of Faneuil, Brighton	Perkins street, near Jamaica pond, West Roxbury	Poplar street, 500 feet from Beech, West Roxbury	Poplar street, Roslindale, West Roxbury	Preston street, Dorchester	River street and Blue Hill avenue, Dorchester	River street, Dorchester	Saratoga street, East Boston	South street, at Arnold Arboretum, West Roxbury	Spring street, near Spring-street station, West Roxbury	Summer street, near Spring-street station, West Roxbury	Tenean street, near Fulton, Dorchester

*Texas street, off Tremont street	14.0	14.0 about 8.0	20	Stone	Wood	3.0
Walk Hill street, near Canterbury street, West Roxbury	8.0	4.0	50	Stone arch	Stone	3.0
Walter street, north of Bussey park, West Roxbury	3.0	4.0	09	Stone	Stone	3.0
Washington street, corner Beaumont avenue, Brighton	3.0	3.5	65	Stone	Stone	3.0
*Washington street (Musk-rat Village), West Roxbury	14.0	0.9	40	Stone arch	Stone	4.5
Washington street, near Poplar street, West Roxbury	14.0	5.0	38	Stone	Wood	3.4
*Washington street, near Williams, West Roxbury	each 7.0 each 7.0	each 7.0	70	Double stone arch, Stone	Stone	4.5
Weld street, near La Grange, West Roxbury	2.0	4.0	30	Stone	Stone	4.0
Western avenue, near North Harvard street, Brighton	4.0	3.0	09	Stone	Stone	4.0
*Williams street, West Roxbury	15.5	8.0	40	Stone	Wood.	
Williams street, West Roxbury	5.0	5.0	90	Wood	Wood.	
						1

APPENDIX A4. — (Supplement.) — Continued. List of Culverts and Small Bridges built in 1891.

The second secon		0		1		
Location.	Span. Feet.	Height of Opening.	Length.	Side-walls,	Covering.	Depth of Covering. Feet.
DORCHESTER. Blue Hill avenue, near Harvard street	5.0	4.42	855	Stone	Stone	1.5
Harvard street, near Blue Hill avenue	5.0	4.45	45	Stone	Stone	2.0
Bailey street, near Hillside terrace	4.0	3.42	40	Stone	Stone	2.5
Fuller street, " "	4.0	3,42	40	Stone	Stone	1.5
Dorchester avenue, near Van Winkle street	4.0	3.42	09	Stone	Stone	1.5
" King street	4.5	4.92	09	Stone	Stone	1.5
Carruth street, near Codman street	51.0	5.0	72	Stone	Stone	1.5
Centre street, near Seaborn street	3.0	3.42	40	Stone	Stone	2.0
West Roxbury. Sycamore and Florence streets	4.0	3.92	73	Stone	Stone	2.0
Allandale street, near the spring	3.5	3.92	40	Stone	Stone	2.0
" " lower brook	1.5	1.5	40	Pipe	Pipe	2.5
Cornell street, near Washington street	4.0	3.42	41	Stone	Stone	2.5
BRIGHTON. Hobart street, near Fanenil street	6.0	7.5	44	Stone	Brick	1.5
Dustin street, near North Beacon street	5.0	5.0	40	Stone	Stone	1.2

List of Culverts and Small Bridges built in 1892.

		CO CONTROL	TO STATE OF THE PARTY OF THE PA			
Location.	Span. Feet.	Height of Opening. Feet.	Length.	Side-walls.	Covering,	Depth of Covering. Feet.
DORCHESTER. Armandine street, 350 ft. from Washington street.	2.0	2.0	61.00	Pipe	Pipe	2.0
Ashmont street, 250 ft. west of Adams street	3.0	60.00	20.00	Stone	Stone:	2.0
Park street, between Bournside and Upland avenues	3.0	3.0	41.00	Stone	Stone	2.0
Rill street, 165 ft. from Hancock street	3.0	6.6	40.00	Stone	Stone	2.0
Trull street, 165 ft. from Hancock street	3.0	20.00	41.00	Stone	Stone	2.0
West Roxbury. Call street, 200 ft. from Keyes street	6.0	4.0	44.00	Stone.	Stone.	2.0
Hawthorn street and Sycamore street	3.5	80.00	83.00	Stone	Stone	2.0
Sycamore street, near Prospect street	4.0	3.0	200.00	Stone	Stone	2.0
BRIGHTON. Commonwealth avenue, 550 ft. east of Malvern street	0.9	6.0	160.00	Stone	Stone	12.5
Commonwealth avenue, 650 ft. west of Essex street	7.0	7.0	304.64	Stone	Stone	10.0
The second secon						

APPENDIX A4.— (Supplement.) — Concluded. List of Culverts and Small Bridges built in 1893.

Location.	Span. Feet.	Height of Opening.	Length.	Side-walls.	Covering.	Depth of Covering.
Dorchester. Armandine street, 500 ft. from Washington street	Double culvert of 18- inch double-thick pipe	•	43.45			2.00
Stockton street, 475 ft. from Washington street	24-inch double-thick pipe		52.70	•	•	2.00
Rockwell street, 525 ft. from Washington street	24-inch double-thick pipe		41.41			3.00
Grove street, 100 ft. from Centre street.	3.00	3.00	46.90	Stone	Stone	3.50
Forest Hills street, between Peter Parley and Washington, streets	24-inch pipe		40.80		•	4.00
South street, 300 ft. south-west from Walter street	3.00	5.33	00.09	Stone	Stone	3.50
BRIGHTON. Commonwealth avenue, near Reedsdale street	3.00	4.33	150.00	Stone	Stone	3.00
Commonwealth avenue, between Griggs and Allston	3.00	4.33 3.33	240.00	Stone	Stone	5.00
		- [

List of Culverts and Small Bridges built in 1894.

Location.	Span. Feet.	Height of Opening.	Length.	Side-walls.	Covering.	Depth of Covering.	Remarks.
DORCHESTER.							
Wheatland ave., between Millet and Spencer sts } Spencer st, between Wheatland ave. and Park st.,	0.00	3.33	741.50	Concrete Concrete	Concrete	3.00	
Millet st., between Wheatland and Talbot aves	4.66	3,50	26.00	Concrete	Concrete	3.00	Rebuilt.
West Roxbury.							
Sycamore st., between Hawthorn and Ashland sts	2.00	3.00	30.10	Stone	Stone	2.00	Rebuilt double stone culvert.
BRIGHTON.							
Parsons street, near Faneuil street	00°9	7.75	47.20	Concrete	Concrete	7.50	Rebuilt.
Faneuil street, near Hobart street	6.50	8.00	45.30	Concrete	Brick	2.50	Rebuilt.
Fairbanks street, near Washington street	5.50	8.50	48.72	Concrete	Brick	2.50	
Washington street, near Fairbanks street	5.50	00.9	70.00	Stone	Stone	4.33	Rebuilt double stone
Commonwealth avenue, between Brighton and Warren street	2.00	3.17	111.00	Stone	Stone	11.50	Extension of old culverts to north line of the avenue.

APPENDIX A5.

Statement of Traffic on Monday, October 8, 1894, between the hours of 6 A.M. and 7 P.M.

NORTH BRIDGES.

Name of Bridge.	Foot-passen-gers from Boston.	Foot-passen-gers to Boston.	Teams from Boston.	Teams to Boston.	Street cars from Bos- ton.	Street cars to Boston.
Charles river	4,485	4,670				
Chelsea (North)	733	862	693	737	284	288
Chelsea (South)	1,799	2,113	1,002	1,092	287	294
Meridian street	2,415	2,260	1,320	1,325	109	106
Warren	8,647	8,210	5,983	5,424	1,146	1,167

SOUTH BRIDGES.

Broadway	8,885	9,700	2,505	2,375	208	200
Congress street	4,000	6,250	3,337	2,950		
Dover street	4,043	4,225				
Federal street	7,575	9,625	1,650	2,080	478	489
Mt. Washington avenue	2,651	2,709	1,492	1,647		
					1	

APPENDIX A6.

DRAW-TENDERS' REPORTS.

Giving the Number of Vessels passing through the Drawbridges controlled by the City of Boston, during the Years 1891, 1892, 1893, and 1894.

	30	Steamers.	ners.		702	Sailing-vessels.	essels			Tugs.	· 100			All others.	hers.		T	otal number Vessels.	Total number of Vessels.		Totals.
NAME OF BRIDGE.	1681	2681	8681	₽681	1681	2681	868I	1681	1681	7681	868T	₹681	1681	2681	1893	F681	1681	1892	868I	F681	Feb. 1, 1891, to Feb. 1, 1895.
Broadway	-	1 00	1 00	9	3,325	3,118	2,959	2,800	1,374	1,709	1,840	1,935	455	626	199	795	5,158	5,461	5,471	5,536	21,626
Cambridge street	61				325	236	149	100	775	133	809	523	315	569	186	205	1,414	1,238	943	837	4,432
Charles river	44	29	30	34	3,231	2,800	2,690	2,503	2,907	7,854	3,175	2,942	2,144	2,010	2,352	2,271	8,326	7,693	8,247	7,750	32,016
Chelsea (North)	124	35	57	99	186	717	868	1,141	4,109	2,899	3,422	3,841	2,503	1,205	1,697	1,631	7,717	4,856	6,074	6,679	25,326
Chelsea (South)	00	30	80	51	1,016	1,037	1,130	820	3,023	2,923	2,540	1,810	1,460	986	1,328	1,083	5,507	5,031	5,078	3,794	19,410
Chelsea street				9		4	14	52		36	9	159	32	14	20	116	32	24	69	938	493
Commercial Point	•						:	F		:	:	:	67	4		H	63	4		63	90
Congress street	294	298	361	277	5,132	4,896	4,671	4,080	7,064	7,647	7,411	7,626	2,525	2,834	2,694	2,850	15,012	15,675	15,137	14,833	60,657
Dover street	13	10	. 9	9	2,652	2,557	2,415	2,355	1,211	1,505	1,574,	1,557	425	544	618	711	4,301	4,616	4,613	4,629	18,159
Essex street		13	23	4	403	247	180	134	1,054	¥01	717	629	537	287	218	244	1,998	1,251	1,138	1,021	2,408
Federal street	63	10	0	9	3,538	3,295	3,199	3,017	1,660	2,044	2,231	2,261	069	979	703	816	5,890	5,995	6,142	6,100	24,127

West Boston, Prison Point, Canal (or Craigie's), and Harvard Bridges not included in these tables, being in the care of commissioners representing the two cities (Boston and Cambridge) connected by these bridges.

Draw-Tenders' Reports. — Concluded.

		Steamers.	ers.		SS	iling.	Sailing-Vessels.			Tugs.	578°			All others.	hers.		To	Total number Vessels.	mber of els.		Totals.
NAME OF BRIDGE.	1681	1892	£68T	168I	1681	2681	868I	1681	1681	7895	8681	1681	1681	2681	868T	F681	1681	2681	868I	₱68I	Feb. 1, 1891, to Feb. 1,
Granite street.	:	:	:	:	100	16	109	82	219	184	237	220	37	19	24.	37	356	294	370	339	(1,359
L street	:			4	•			678		:	:	2,754	•			1,535	:	* :		4,971	4,971
Malden	ा	ಣ	10	00	352	215	260	360	1,267	919	1,107	1,226	453	473	478	574	2,074	1,670	1,850	2,168	7,762
Meridian street	84	74	44	47	767	851	11-11	846	2,521	3,351	3,736	4,030	1,137	1,432	1,746	2,088	4,499	5,708	6,297	7,011	23,515
Mt. Washington avenue	68	102	61	87	4,102	3,923	3,822	3,432	4,775	160,6	4,741	4,782	1,824	2,199	2,089	2,246	10,790	11,286	10,731	10,547	43,354
Neponset	:	:			167	193	131	105	237	198	244	224			31	40	404	391	406	369	1,570
North Beacon street	:	-	-		•				prof.	ಣ	7					•	Ħ	4	64		F-a
North Harvard street					138	120	Te	149	243	272	131	168	23	39	98	36	404	431	221	268	1,324
Warren	47	17	t=	63	3,108	2,796	2,655	2,081	1,950	1,940	1,983	2,124	1,757	1,470	1,520	1,699	6,862	6,223	6,165	5,967	25,217
Western avenue to Cambridge	C1			ÇĬ	236	211	132	9.5	169	619	481	456	810	228	137	153	1,107	1,058	750	676	3,591
Watertown avenue to Watertown	:	-			TO.	12	9	10	100	F	00	500	14	:	14	20	22	28	90	55	158
Totals	719	654	710.	199	29,568 27,319	27,319	26,245 24,797	197,197	34,999	35,709	36,232	39,275	16,605 15,285 16,555	15,285	16,555	19,151	1168,18	81,891 78,967 79,742	79,742	83,890	324,490

APPENDIX B.

REPORT OF DEPUTY SUPERINTENDENT OF PAVING DIVISION.

Office Paving Division,
Room 41, City Hall, Boston, February 1, 1895.

B. T. Wheeler, Superintendent of Streets:

DEAR SIR: The following report is submitted, showing the expenditures of this division from February 1, 1894, to January 31, 1895, the nature of the work, the number and variety of permits issued, and the details of expenditures involved in paving,

macadamizing, and regulating the various streets.

The following list shows the total yearly expenditures of the Paving Division, according to the report of the Superintendent of Streets, for the last thirty-nine years, the expenditures being from January 1 to December 31, inclusive, of each year, except of 1891, that year extending to January 31, 1892, making a period of thirteen months, the years after extending from February 1 to January 31:

	-								
1856	۰			\$192,458 48	8 1877			۰	\$1,077,475 81
1857			۰	201,528 49	9 1878			٠	644,821 76
1858				187,160 99	2 1879				727,340 05
1859			۰	186,295 7	7 1880				1,015,063 06
1860			٠	197,170 63	3 1881				966,366 49
1861		1.		176,978 70	6 1882				1,088,551 14
1862				175,981 68	8 1883				934,656 58
1863				151,130 2	7 1884				1,310,172 16
1864				156,959 6	5 1885				1,018,693 39
1865				173,258 13	3 1886				1,170,863 01
1866				244,953 58	5 1887				1,260,530 03
1867				283,641 50	6 1888			٠	1,043,475 52
1868				407,053 89	9 1889				1,051,460 18
1869				667,817 90	0 1890				1,061,722 40
1870				804,384 89	9 1891		٠		1,991,524 28
1871				923,312 33	7 1892				1,972,857 88
1872				1,010,508 48	8 1893			٠	1,552,913 17
1873				931,019 03	1 1894				1,642,491 48
1874				1,683,848 6	7				
1875				1,062,408 5		tal			\$32,329,591 46
1876				980,741 45	2				

STREET NUMBERING.

Numbers have been assigned to the estates in the different districts as follows:

City Proper .		7 streets and parts of 47 streets
South Boston		1 street and parts of 20 steeets
East Boston.		1 street and parts of 17 streets
Roxbury .		5 streets and parts of 47 streets
West Roxbury		4 streets and parts of 38 streets
Brighton .		1 street and parts of 20 streets
Dorchester .		15 streets and parts of 53 streets
Charlestown.		parts of 14 streets
PP		2

Totals . . . 34 streets and parts of 256 streets

PERMITS.

Permits have been issued to make openings in the streets of the city between February 1, 1894, and January 31, 1895, as follows:

Company,					Permit.	Feet.
American Telegraph Co.					1	4
D . TY . I TI I . G	,				479	30,543
Boston Gas Light Co					645	23,817
Boston Water Dept. (Eastern	Divi	sion)			4,111	113,675
Boston Water Dept. (Mystic)					142	3,649
Brookline Gas Light Co					5,521	423,599
Boston Transit Co				,	37	588
Boston & Maine R.R. Co.					15	2,286
Boston, Revere Beach, & Lyn	n R.	R.			1	60
Barber Asphalt Co					16	1,320
Charlestown Gas and Electric	Lig	ht Co).		58	1,698
Dorchester Gas Light Co.	•			۰	486	14,510
Edison Electric Illuminating (Co.				399	18,941
East Boston Gas Light Co.					248	8,311
Fire Alarm Department.	•				102	3,021
Jamaica Plain Gas Co					335	24,464
Lamp Department					10	143
Lynn & Boston R.R. Co.	•				14	1,125
Metropolitan Construction Co					14	4,325
Metropolitan Sewerage Comm	issio	n			3	3,600
N.E. Telephone and Telegrap	h Co				1,426	59,536
Norfolk Suburban R.R. Co.	-				211	2,040
N.Y., N.H., & H. R.R. Co.					5	58
N.Y. & N.E. R.R. Co					8	281
Postal Telegraph Cable Co.					40	6,763
Park Department					15	14,263
Police Department					6	63
Quincy & Boston Street R.R.					17	364
Quincy Market Cold Storage	Co.				2	200
Roxbury Gas Light Co					376	14,655
Sewer Division					158	35,090
South Boston Gas Light Co.	•				294	6,839
Standard Oil Co					18	246
United States Government					1	600
Union Freight Railway Co.					1	150
West End Street Railway Co.					1,107	153,215

Company					Permit.	Feet.
Western Union	Teleg	raph	Co.		154	770
Miscellaneous					2,076	75,497

Total openings, 18,552, aggregating 1,050,309 feet, or 198.8 miles.

In addition to the foregoing there have been issued ninety-nine (99) emergency permits to the various departments and corporations. On these permits 2,576 openings were made, at an average of about six feet each.

Permits other than for opening streets have been issued as follows:

Advertising by man wearing					ed.	26
Cleaning snow from roofs						124
Driving cattle						16
Distributing sand						56
Feeding or baiting horses or						1,055
Erecting, repairing, and ren	novi	ng awr	ings	۰		4,264
Erecting and repairing build						6,816
Moving buildings						53
Occupying sidewalks for loa	ding	g and u	inload	ling	goods	35
Pedlers (four different class						877
Raising and lowering safes,						560
Special for various purposes						354
Watering carts						140
Making a total of .					•	14,376
Or a grand total of						32,928

There have been 12,070 notices sent to the various foremen, to repair defects in the streets, which have been reported by the police, or from other sources; also 1,934 to private parties, to repair work which had been improperly done by them, where they have received permits to open the streets, and to owners of estates where there are coal-holes or Hyatt lights.

In accordance with section 8, chapter 36, Revised Ordinances of 1892, 1,653 notices have been sent to the foremen of the several districts, directing them to make necessary repairs where parties making openings have neglected to attend to them within a speci-

fied time, after being notified to do so.

Three hundred and eighty-nine notices have been sent to departments, corporations, and abutters, regarding proposed street improvements during the year. There have been 307 new bonds filed during the year; also 591 applications referred to the Police Department, asking for information regarding locations where persons have asked for permits to sell fruit, etc., from windows, bulkheads, and areas, and the granting or refusal has generally been governed by the recommendations received. The same course has been pursued in cases of individuals desiring to occupy sidewalks for more than ten minutes to load or unload goods.

Streets Laid Out or Extended.

DATE.	Street.	Location.	Length, Lin. ft.
Mar. 30,	Newbury st	(Formerly West Newbury st.) from	
·	· ·	Charlesgate, west, to Brookline ave.	1,258.21
April 6,	Wilkes st	(Formerly Wells pl.) from Washington st. to Bradford st	247.19
April 21,	Franklin st	Footway under the tracks of the B. & A. R.R. Company.	
April 30,	Buena Vista st	(Formerly Buena Vista ave.) from	
TM 7	T 31	Walnut ave. to Warren st	460.48
May 8, May 8,		From Washington st. to Allston st From Dorchester ave. to Boston st	1,237.39 670.07
June 9,		(Formerly Yale st.) from Wenham	010.01
ounc o,	veriety butter	st. to Wachusett st	279.26
June 12,	Arundel st	From Beacon st. to Mountfort st	255.77
June 12,	Mountfort st	From Ivy st. to Audubon road	428.00
June 12,	Ivy st	From St. Mary's st. to Mountfort st.,	777.47
June 22,	Algonquin st	From Harvard st. to Washington st	929.94
June 22,	Bradlee st	From School st. to Washington st	756.01
June 22,	Plymouth st	From Longwood ave. to Bernier st	396.50
July 26,	Mishawum st	(Formerly Ham's court) from Main st. to Rutherford ave	304.31
July 26,	Rice st	(Formerly Wood st.) from Walnut	
July 26,	Victor st	st. to Taylor st	143.00
oury 20,	7 10001 50	ave. to Dean st.	
Aug. 10,	Evergreen st	(Formerly Atwood ave.) from Day st.	553.84
Aug. 10,		From Marshfield st. to Pontine st	167.83
Aug. 10,	Glenway st	(Formerly Glen road) from Glen ave. to Harvard st	1,338.54
Sept. 14,	Norway st	(Formerly Caledonia st.) from Fal-	,
Sent 14	St. Germain st	mouth st. to Massachusetts ave (Formerly Cromwell st.) from Mas-	582.92
осри, 14,	Di. Germani st	sachusetts ave. to Dalton st	722,33
Sept. 14,	Temple st	From Mt. Vernon st. to Baker st	959.9
Sept. 22,		From Walden st. to Gay Head st	173.00
Oct. 4,		From Back Bay Fens to Brookline ave.	2,094.00
Oct. 4,	Cunard st	From Tremont st. to Cabot st	172.03
Oct. 4,		From Washington st. to Allston st	1,275.3
Oct. 4,	Wrentham st	From Dorchester ave. to Shelton st	1,008.50
Oct. 12,		From Pond st. to Woodland road	834.6
Oct. 12,		From Moss Hill road	472.1
Oct. 16,		From Erie st. to White st	765.4
Oct. 16,		From Harbor View st. to Crescent ave.	834.4
Oct. 20,	Sherborn st	From Commonwealth ave. to Charles	472.7
Oct. 20,	Burbank st	(Formerly Buckingham pl.) from	
Nov. 5,	Wren st	Buckingham st From Rutledge st. to Oriole st	269.03 1,247.88
Nov. 16,		From Haviland st. to Astor st	731.70
Nov. 16,		(Formerly Grace ave.) from Robin-	
**		son st. to Arcadia st	352.9
	Fairbury st	From Blue Hill ave. to Rand st	308.72
Dec. 12,	Kenmore st	From Commonwealth ave. to Newbury st	211.00
		Var. 7	WII.00

Streets Laid Out or Extended. — Concluded.

DATE.	ATE. Street. Location.		Length, Lin. ft.
**************************************			-
T) #4	7017	Brought forward	23,692.61
Dec. 14,	Ridgemont st	(Formerly Ridgemont ave.) from Allston Heights to West Eleanor st	891.48
Dog 14	Eleanor st	From Cambridge st. to Ridgement st.,	155.61
	Bicknell st	(Formerly Bicknell ave.) from Har-	100.01
1700. 11,	Dickness Str	vard st. to White st	833.71
1895.			
	Columbus ave !	From Northampton st. to Franklin	
		park	5,750.00
Jan. 5,	Commonw'th ave.	From Chestnut Hill ave. to Newton	
		boundary line	1,336.00
		T	22 280 11
		Extensions total	
		Discontinued total	1,208.61
		Total	31.450.80
		Or 5.956 miles.	

Streets Widened and Relocated.

Date. Street.		Location.	Sq. ft.
April 11,	Parker st	From Westland ave. to Huntington	
		ave	16,092
	Congress st	Between State st. and Congress sq	241
	Franklin st	Between Cambridge st. and Lincoln st.	4,080
	Bunker Hill	Between Vine st. and Moulton st	5,008
Aug. 10,	Ruggles st:	South-westerly side between Auburn	1817E -
~		st. and Westminster st	198
Sept. 8,	Saratoga st	Between Bennington st. and the Bos-	
		ton, Revere Beach, and Lynn Rail-	,
	~ 1	road	7,934
	Salem st	Near, and north of Parmenter st	75
Oct. 4,	Cunard st	South-westerly side between Tremont	4.000
() + 00	TT	st. and Berlin st.	4,032
Oct. 20,	Harvard ave	From Commonwealth ave. to the	10 200
37	Damlahamat	Brookline boundary line	10,568
	Boylston st	Easterly side, junc'on of Lamartine st.	1,262
Nov. 5,	Blue Hill ave	From Washington st., Roxbury, to	010 010
Mar F	Claudh at	River st., Dorchester	696,213 266
Nov. 16.	South st	Southerly side at and near Poplar st. At and near Rand st	41
		From Blue Hill ave. to Walnut ave.	
	Seaver st	Between Harvard ave. and Charles	83,502
Dec. 14,	Cambridge st	river	3,601
		11461	3,001
1895.			
	Huntington ave	From Copley sq. to Brookline boun-	
oun. 0,	Transmigton ave	dary line	192,216
		dury mile	102,210
			1,025,329

Streets Discontinued.

DATE. Street.		E. Street. Location.			
April 12,	Congress sq.	Easterly side, adjoining estate of R. Worthington		295	
June 22,	Revere st	Between S. Russell st. and Ir-		0.105	
Oct. 3,	Salem st	ving st. Part near and north of Parmen- ter st. adjoining estate of Mark Lewis and Meyer Ber-	74.80	2,195	
1895.		man		3	
Jan. 4. Jan. 4. Jan. 4. Jan. 4. Jan. 4. Jan. 5.	Cary st Terry st Riverside st. Chapel st	From Terry st. to Culvert st Part of, near Columbus ave Part of, near Columbus ave Part of, near Sarsfield st Building line established on the southerly side from Arlington st. to Massachusetts ave.	503.65 542.84 39.30 48.02	15,110 21,714 1,084 1,585 580	
			1,208.61	42,566	

The records of the Street Commissioners for the year 1894 show the following results:

Streets laid out or extended				32,659.41 lin. ft.
Streets widened and relocated				1,025,329 sq. ft.
Streets discontinued	42	,566 sq	. ft.	or 1,208.61 lin. ft.
Increase in mileage				. 5.956 miles.

FINANCIAL STATEMENT.

Appropriation for 1894–95	\$800,000	00
panies, etc	7,702	30
	\$807,702	30
Amount of expenditures from Feb-		
ruary 1, 1894, to January 31,		
1895		
Transferred to Central Office . 1,000 00		
Transferred to Bridge Division . 5,787 21		
Transferred to Sanitary Division . 1,959 02		
Transferred to Street-Cleaning		
Division		
Transferred to Sewer Division . 1,638 66		
Transferred to New Lunatic Hos-		
pital 18,000 00		
Transferred to County of Suffolk . 30,000 00		
Transferred to New Buildings, Long		
Island 10,000 00		
Transferred to Police Station House		
No. 13, land and addition to . 1,371 97		
Transferred to Grammar School,		
Pierce District		
Transferred to Primary School-		
House, Oak Square, etc 218 40		
Transferred to Primary School-		
House, Emerson District 100 00		
\$807,702 30		
	**********	20
Total expenditures from regular appropriation. Total expenditures from street-watering appro-	\$715,608	62
priation	87,169	08
Total expenditures from special appropriations.	839,713	
Total expenditures from special appropriations		
Grand total (regular and special)	\$1,642,491	48

INCOME.

Statement showing the amount of bills deposited with the City Collector from February 1, 1894, to February 1, 1895, on account of the Paving Division:

Sidewalk construction assessments (L Edgestone and sidewalk assessment		\$1,359 35
1893)		6,998 07
Repairs of streets (Rev. Ord. 1892)		2,112 52
Old paving blocks		
Rent of part of Fort Hill Wharf		 500 00
Miscellaneous		869 02
		\$17,268 41

The amount paid into the city treasury during the year on account of the Paving Division is as follows:

Sidewalk construction assessments (Law of 1892 Edgestone and sidewalk assessments (Law		\$32,334	14
1893)		15,546	89
Repairs of streets (Rev. Ord. 1892)		3,600	50
Rent of part of Fort Hill Wharf		500	00
Miscellaneous	•	854	57
		\$52,836	10
In addition to the above amount, there was an income from street-watering of		\$906	77

Table showing Expenses paid from the Regular Appropriation, classified by Districts, from February 1, 1896.

Total.	\$41,084 40 22,693 83 26,751 21 66,752 35 58,150 26 102,150 46 95,239 42 200,573 93 34,637 61 53,438 50 14,186 65	\$715,608 62
D. New Work.	章2,174 40 2,044 42	\$4,218 82
C. In Excess of Special Appropriation	\$284.35 7,967.43 11,348.63 2,794.01 2,794.01	\$23,150 12
B. Executions of Court.	\$14,186 65	\$14,186 65
Fences and A. Alscellaneous.	#85.55 14.38 14.38 14.38 15.59 16.59	\$53,438 50
	\$1,905 04 717 80 1,428 22 2,293 92 1,059 25 1,748 83 4,622 83 305 44	\$14,795 41
Edgestones, Sidewalks, and Crossings.	\$6,997 55 6,191 55 6,191 47 4,411 47 1,326 63 1,506 04 4,692 73 11,642 62 27,150 61 4,048 69	\$67,969 33
Snow.	\$7,367 47 4,1453 08 6,1453 08 6,1499 51 5,524 99 9,789 88 6,248 ‡2 29,787 50 8,069 88	\$78,381 71
Repairs.	\$24,479 99 11,530 90 15,422 43 50,510 08 48,409 32 73,085 57 74,845 134,174 56 27,213 60	3459,468 08 \$78,381 71 \$67,969 33 \$14,795 41 \$53,438 50 \$14,186 65 \$23,150 12 \$4,218 82
Districts.	1. South Boston. 2. East Boston. 3. Charlestown. 4. Brighton. 5. West Roxbury. 6. Dorchester. 7. Roxbury. 8, 9, 10. City proper. 11. Roxbury and West Roxbury.	Totals

C. B. P.

See Schedule A for items. See Schedule B for items. This schedule shows amount of money spent in excess of the special appropriation, and taken from the maintenance appropriation; for items, see Special

Appropriations.
This schedule shows streets where the repairs have exceeded \$2,000; for items, see Schedule D.

SCHEDULE A.

Expenditures. (Details.)

EXPENDITURES. (DETAILS.)	
Salary of Charles R. Cutter, Deputy Superintendent	
of Streets, February 1, 1894, to December 9, 1894,	
and from January 13, 1895, to January 30, 1895,	\$3,147 88
Salaring of office clarks	9,487 53
Salaries of office clerks	3,761 47
Advertising in and subscribing for daily papers	341 95
Have some and have seed (now)	6,133 33
Horses, carts, and harnesses (new) Printing and stationery	
Printing and stationery	2,576 12
Printing and stationery (permit office)	550 46
Repairing stables, sheds, etc	2,751 73
Sundries	7,776 35
Street signs and numbering	1,189 68
Telephones, expense of	1,552 49
Tools, cost of keeping the same in repair, etc.	13,427 51
Removal of permit office to Old Court House	742 00
	\$53,438 50
COLLEDITED	
SCHEDULE B.	
Executions of Court, etc.	
•	
Bouge, Alfred F. O. and Emilie A., damage to	
property	\$151 44
Chandler, Lucinda, personal injuries	126 77
Cochran Agnes I.	
Cochran, Agnes L.,	94 79
Corkey, John F., Adm., "	94 79 150 00
Corkey, John F., Adm., "	
Corkey, John F., Adm., "	150 00
Corkey, John F., Adm., "	150 00 76 83
Corkey, John F., Adm., "	$\begin{array}{c} 150 & 00 \\ 76 & 83 \\ 125 & 00 \end{array}$
Corkey, John F., Adm., "	150 00 76 83 125 00 857 86
Corkey, John F., Adm., "	$\begin{array}{ccc} 150 & 00 \\ 76 & 83 \\ 125 & 00 \\ 857 & 86 \\ 300 & 00 \end{array}$
Corkey, John F., Adm., "	$\begin{array}{c} 150 \ 00 \\ 76 \ 83 \\ 125 \ 00 \\ 857 \ 86 \\ 300 \ 00 \\ 65 \ 00 \\ 400 \ 00 \end{array}$
Corkey, John F., Adm., "	$\begin{array}{c} 150 \ 00 \\ 76 \ 83 \\ 125 \ 00 \\ 857 \ 86 \\ 300 \ 00 \\ 65 \ 00 \end{array}$
Corkey, John F., Adm., " Cross, Michael, " Donahue, Nellie E., " Dowd, John, grade damages Dunaken, Lucinda C., personal injuries Farrell, James, " Fay, Ann, damage to property Finnegan, Fred. C., personal injuries Ford, Daniel W., "	$\begin{array}{c} 150 & 00 \\ 76 & 83 \\ 125 & 00 \\ 857 & 86 \\ 300 & 00 \\ 65 & 00 \\ 400 & 00 \\ 100 & 00 \\ 250 & 00 \end{array}$
Corkey, John F., Adm., " Cross, Michael, " Donahue, Nellie E., " Dowd, John, grade damages Dunaken, Lucinda C., personal injuries Farrell, James, " Fay, Ann, damage to property Finnegan, Fred. C., personal injuries Ford, Daniel W., " Gray, Rachel B., grade damages	$\begin{array}{c} 150 & 00 \\ 76 & 83 \\ 125 & 00 \\ 857 & 86 \\ 300 & 00 \\ 65 & 00 \\ 400 & 00 \\ 100 & 00 \\ 250 & 00 \\ 227 & 10 \\ \end{array}$
Corkey, John F., Adm., " Cross, Michael, " Donahue, Nellie E., " Dowd, John, grade damages Dunaken, Lucinda C., personal injuries Farrell, James, " Fay, Ann, damage to property Finnegan, Fred. C., personal injuries Ford, Daniel W., " Gray, Rachel B., grade damages Jordan, Sarah, personal injuries	$\begin{array}{c} 150 & 00 \\ 76 & 83 \\ 125 & 00 \\ 857 & 86 \\ 300 & 00 \\ 65 & 00 \\ 400 & 00 \\ 100 & 00 \\ 250 & 00 \\ 227 & 10 \\ 526 & 19 \\ \end{array}$
Corkey, John F., Adm., " Cross, Michael, " Donahue, Nellie E., " Dowd, John, grade damages . Dunaken, Lucinda C., personal injuries . Farrell, James, " Fay, Ann, damage to property Finnegan, Fred. C., personal injuries . Ford, Daniel W., " Gray, Rachel B., grade damages . Jordan, Sarah, personal injuries . Keohane, Cornelius, "	$\begin{array}{c} 150 \ 00 \\ 76 \ 83 \\ 125 \ 00 \\ 857 \ 86 \\ 300 \ 00 \\ 65 \ 00 \\ 400 \ 00 \\ 100 \ 00 \\ 250 \ 00 \\ 227 \ 10 \\ 526 \ 19 \\ 126 \ 83 \end{array}$
Corkey, John F., Adm., " Cross, Michael, " Donahue, Nellie E., " Dowd, John, grade damages Dunaken, Lucinda C., personal injuries Farrell, James, " Fay, Ann, damage to property Finnegan, Fred. C., personal injuries Ford, Daniel W., " Gray, Rachel B., grade damages Jordan, Sarah, personal injuries Keohane, Cornelius, " Kelley, Henry, damage to property	$\begin{array}{c} 150\ 00 \\ 76\ 83 \\ 125\ 00 \\ 857\ 86 \\ 300\ 00 \\ 65\ 00 \\ 400\ 00 \\ 100\ 00 \\ 250\ 00 \\ 227\ 10 \\ 526\ 19 \\ 126\ 83 \\ 501\ 44 \\ \end{array}$
Corkey, John F., Adm., " Cross, Michael, " Donahue, Nellie E., " Dowd, John, grade damages Dunaken, Lucinda C., personal injuries Farrell, James, " Fay, Ann, damage to property Finnegan, Fred. C., personal injuries Ford, Daniel W., " Gray, Rachel B., grade damages Jordan, Sarah, personal injuries Keohane, Cornelius, " Kelley, Henry, damage to property Kneeland, Frank, "	150 00 76 83 125 00 857 86 300 00 65 00 400 00 100 00 250 00 227 10 526 19 126 83 501 44 462 43
Corkey, John F., Adm., " Cross, Michael, " Donahue, Nellie E., " Dowd, John, grade damages . Dunaken, Lucinda C., personal injuries . Farrell, James, " Fay, Ann, damage to property . Finnegan, Fred. C., personal injuries . Ford, Daniel W., " Gray, Rachel B., grade damages . Jordan, Sarah, personal injuries . Keohane, Cornelius, " Kelley, Henry, damage to property . Kneeland, Frank, " Lane, Mary A., Adm., personal injuries .	150 00 76 83 125 00 857 86 300 00 65 00 400 00 100 00 250 00 227 10 526 19 126 83 501 44 462 43 100 00
Corkey, John F., Adm., "Cross, Michael, Cross, "Cross, Michael, Lucinda C., personal injuries "Cray, Ann, damage to property "Cross, "Cross, Michael, "Cross, Machel B., grade damages "Cross, "Cros	$\begin{array}{c} 150 & 00 \\ 76 & 83 \\ 125 & 00 \\ 857 & 86 \\ 300 & 00 \\ 65 & 00 \\ 400 & 00 \\ 100 & 00 \\ 250 & 00 \\ 227 & 10 \\ 526 & 19 \\ 126 & 83 \\ 501 & 44 \\ 462 & 43 \\ 100 & 00 \\ 152 & 00 \\ \end{array}$
Corkey, John F., Adm., "Cross, Michael, "Cross, "Cross, Michael, "Cross, M	150 00 76 83 125 00 857 86 300 00 65 00 400 00 100 00 250 00 227 10 526 19 126 83 501 44 462 43 100 00 152 00 100 00
Corkey, John F., Adm., "Cross, Michael,	150 00 76 83 125 00 857 86 300 00 65 00 400 00 100 00 250 00 227 10 526 19 126 83 501 44 462 43 100 00 152 00 100 00 500 00
Corkey, John F., Adm., "Cross, Michael,	150 00 76 83 125 00 857 86 300 00 65 00 400 00 250 00 227 10 526 19 126 83 501 44 462 43 100 00 152 00 100 00 500 00 170 56
Corkey, John F., Adm., "Cross, Michael,	150 00 76 83 125 00 857 86 300 00 65 00 400 00 100 00 250 00 227 10 526 19 126 83 501 44 462 43 100 00 152 00 100 00 500 00

\$5,614 24

Carried forward,

\$20,356 11

Brought forward, Norton, Martin, personal injuries Orcutt, Ira A., '' Pratt, Isaac, Jr., abatement sidewalk assessment Purcell, James, personal injuries Quincy, W. H., damage to property Richmond, Mary L., personal injuries Russell, Mary A., '' Sterling, Andrew W., '' Sweeney, Catherine, '' Tucker, Florence E., et als., damage to estate Weatherbee, Marguerite, personal injuries Whalley, William, damage to coach Woodward, Joseph, damage to property.		\$5,614 24 1,906 42 350 00 2,222 78 254 24 250 00 100 00 527 43 330 07 150 00 1,661 75 326 44 25 00 468 28
(ICHEDITY E. C.		\$14,186 65
The following schedule shows the expenditure tenance appropriation of this division in excess o priations:		
Vale street, Ward 15. In excess of special appropriation		. \$284 35
Commonwealth avenue, between St. Paul street Brighton avenue. In excess of special appropriation	anc	7,967 43
Blakeville street, Ward 24. In excess of special appropriation		. 569 01
Bushnell street, Ward 24. In excess of special appropriation		. 1,363 33
Duncan street, Ward 24. In excess of special appropriation		. 407 85
Glenway street, Ward 24. In excess of special appropriation		. 268 95
Greenheys street, Ward 24. In excess of special appropriation		. 186 90
King street, Adams street to Neponset avenue. In excess of special appropriation		. 4,082 44
Lyndhurst street, Ward 24. In excess of special appropriation		. 4,026 30
Park street, Adams street to Upland street. In excess of special appropriation		. 443 85
Thwing street, Ward 21. In excess of special appropriation		. 755 70

Carried forward,

Brought forward, Albany street, at N chusetts avenue.	orthan	npton	and	betw	een M		\$20,356´11 -
In excess of special	appro	priati	on .		• •		. 896 00
Charles street, Cam In excess of special	bridge appro	e to P priati	inckn	ey st	reets.		. 64 11
Commonwealth ave							
In excess of special				٠	•		. 120 00
Harcourt street, Re In excess of special	etainin appro	g-wal priati	l. on .				. 1,713 90
							\$23,150 12
	SC.	HED	ULE	D.			
	λ	EW	WORI	К.			
Stockton street, Wa					ton av	enne	
Labor	isining t	011 501		o Min	\$286	88 -	•
Labor Teaming					97	00	
Gravel		Si .			894	00	
Steam-roller			4		100	Ω	
Stone	· •				716	52	
Bay State road, so Beacon streets.	uth sid	le, be	twee	n Ra			\$2,174 40
Labor					\$295		
Teaming Blocks	•				226		
Blocks					140		
Steam-roller					90		
Stone					1,292	20	
					-		2,044 42
							\$4,218 82
	REMC	VAL	OF	SNO	W.		
South Boston							\$7,367 47
East Boston	•-						4,453 08
Charlestown							6,199 51
Brighton							5,524 99
West Roxbury .							5,940 98
Dorchester							9,789 88
Roxbury							6,248 42
Roxbury City Proper							29,787 50
City Proper Roxbury and West R	Coxbur	y (Di	strict	XI.) .		3,069 88
							# =0.001 =
							\$78,381 71

60 00 198 46

6 00

STREET-WATERING. . \$6,471 95 South Boston 5,411 95 East Boston . 5,316 95 9,629 45 12,368 90 12,083 90 Roxbury 12,448 88 City Proper . . . 23,437 10 \$87,169 08 DETAIL OF EXPENDITURES MADE UNDER SPECIAL APPROPRIATIONS. Baker street, Ward 23, Baker place to Mt. Vernon street. grading and gravelling. Labor . \$930 82 Teaming Gravel . **522** 00 189 00 10 08 Sundries \$1.651 90 Amount of special appropriation . . \$1,350 40 Amount paid out of Street Improvements, Aldermanic District No. 11 Amount paid out of Street Improvements, Wards 23 and 25 199 00 \$1,651 90 Bellflower street, Dorchester avenue to Boston street. Filling to sub-grade. Labor . . \$46 25 2,241 25 712 50 \$3,000 00 Amount of special appropriation \$3,000 00 Blakeville street, Ward 24. Grading and macadamizing; edgestones set; gutters paved; sidewalks gravelled. \$970 30 Teaming 400 00 Gravel . 486 75 220 50 Stone .

\$2,342 01 Carried forward,

Rolling . . . Paving . .

Advertising . .

Brought									\$2,342	01
Amount of s	special	appr	opria	tion	•	8	1,500	00		
Amount paid	d out c	of Str	eet I	mpro	veme	nts,				
Ward 24 Amount paid			. •			•	273	00		
Amount paid	d out c	of Pa	ving]	Divis	ion		569	01		
									\$2,342	01
Blue Hill a	venue	e, Du	idley	stree	et to	with	in 80	feet	of Dalma	atia
street, gra										
sidewalks granite bl	laid, ocks,	cross	swalk 1-basi	s par ns b	ved, uilt.	road	way p	aved	with la	rge
8,146 sq. yd	s. grai	nite b	olock	pavi	ng.					
Labor .	•								\$5,944	61
Teaming		•	•	•	•	•	•	•	4,706	
Gravel .					•	•	•	•	5,763	
Sand .			•	•	•		•	•	1,225	80
				•	•		•	•	540	
Stone . Advertising 46,000 pavir	•	•	•	•	•		•		35	
46.000 pavir	o-hric	ks							575	
207,035 larg	e gran	ite b	locks						13,866	-, -
2,664 feet of	f flaggi	ing							2,130	
1,150 feet of				nine	laro	e cor	ners		798	
Amount p									• • • •	
5,811 sq. yds	s. block	x-pay	ring la	id. a	t 25 e	ts. \$	1.452	75		
3,344 feet ed	dgesto	ne se	t, at 8	8 cts.			267			
3,344 feet ed 2,005.5 sq.	vds.	brie	k-pav	ing	laid.	at				
	•				•		360	99		
295 sq.yds.	flaggi	ng er	ossw	alks	laid,					
25 cts.		•					. 73	75		
							-		2,155	01
Work done	by the	Sewe	er Div	rision			• .		439	
									\$38,181	97
Amount of s	pecial	appr	opria	tion		. \$2	25,000	00		
Amount paid	d out o	f stre	eet im	prov	emen	ts,				
Ward 20					•		8,160	58		
Amount paid										
Ward 21	•	•	•		•		5,021	39	#	
									\$38,181	97
Bumstead	lane (now	St.	Alph	onsus	stre	eet), T	'remo	ont street	to
Huntingto	n ave	nue,	gra	ding	and	wic	lening.	, ed	gestone s	set,
brick side	ewalks	laid	l, gut	ters	pave	d, he	eavy T	Γelfo	rd-Macad	am
roadway b	ouilt, c	rossv	valks	laid,	cate	h-bas	sins bu	ailt, :	fences bu	ilt,
and retair	ning-w	alls o	consti	ructe	1.	Leng	th, 1,	173 :	feet; wid	ith,
40 feet.										
Labor .									\$1,725	91
Teaming									1,788	00
Gravel .	•								2,878	10
Carried	forma	xd							\$6,392	01
500,,000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								40,002	- A

Brought forward,						\$6,392	01
Stone			•	•		4,491	
Stone						478	
1,500 large granite blo	cks .					105	00
z,120 12 leet edgestone	e, and 12	sman c	orners			1,424	43
280.4 feet of flagging						224	32
Ketaining-wan .						50	00
Rolling Sundries				•		190	00
Sundries						4	23
Amount paid to M. 682½ days' labor, at \$1	Kiernan	:					
$682\frac{1}{2}$ days' labor, at \$1	.75 .		. \$1,1	94 3	37		
Plus 15%			. 1	179	15		
			-			1,373	52
Amount paid to A.	A. Libby	& Co.					
388.1 feet old edgestor	ne reset,	at 8 cts	• • •	31 (05		
2,218 feet new edgesto				177	44		
769.8 sq. yds. block-pa				92	45		
826 sq. yds. round-sto	ne pavir	ng laid,	at				
25 ets			. 2	206	50		
204.3 sq. yds. brick s	idewalks	relaid	at				
18 cts				36 7	78		
:965.9 sq. yds. brick sid	ewalks la	id (new),				
at 18 cts			1	.73 8	86		
			-			818	08
						\$15,551	50
Amount of special app	ropriatio	n .	. \$7,8	27 (00		
Amount paid out of str	reet impr	ovement	s,				
'Aldermanic District	No. 9.		. 8,0	59 3	32		
Amount paid out of str	reet impr	ovement	S.				
Wards 19 and 22			. 1	65 1	.8		
			-			\$15,551	50
Bunker Hill, Vine,	and Mo	ulton s	streets	(wo	ork 1	a n finishe	d),
grading.							, ,
Labor						\$141	45
Gravel	. ,			•		11	70
Filling						219	
C .							
						\$372	15
Bushnell street (nov	v Peaboo	ly squar	e). Ash	mon	t str	eet to D	Ol-
chester avenue, gra	ading an	d maca	damizir	\mathcal{Q}	edge	stones s	et.
crosswalks laid, gutt	ters pave	d, eatch	-basin l	ouilt.	,		
Labor	,					\$998	60
Teaming				•		390	
Gravel						201	
Stone			•			331	50
Stone Rolling						30	00
5,125 large paving bloc	cks			•		358	75
,							
Carried forward,						\$2,310	65

Brought	foru	pard,							\$2,310	65
$157\frac{1}{12}$ feet pa	ark e	dgest	tone						408	
$88\frac{3}{12}$ feet circ	cular	edge	estone						80	95
$29\frac{7}{12}$ feet str	aight	edge	estone						19	23
604 feet flagg	ging								544	08
									\$3,363	33
Amount of sp	oecia	l app	ropria	tion		. 0	2,000	00		
Amount paid										
Į.			0							33
									#0,000	
Charter str	eet	(worl	k not s	starte	ed).					
Advertising									\$9	20
										_
Commonwe	alth	9 V (-)	ппе с	onst	ruetio	n B	eacon	sti	eet to Ch	ost_
nut Hill a			iuo,	01150	ucuo	11, 15	Cacon	. 501	cct to cn	CS L-
Labor, includ			caring	and	inene	etion			\$39,017	64
Tanning	ung (епатп	gurissi	anu	шъре	Culon	•	•	8 977	50
Teaming Gravel .		•	•	•	•	•	•	•	8,977 $12,250$	45
Tass.	•	•	•	•	•	•	•	•		
Loam .	•	•	•	•	•	•	•	•	6,846	
Gravel filling Stone Rolling Company	•	•	•	•	•	•	•	•	18,544	
Stone .	•	•	•	•	•	•	•	•	50,962	05
Rolling .		•	•	•	•	•	•	•	2,980	00
Cement . Powder and f		•	•	•	•		•		$\begin{array}{c} 7 \\ 126 \end{array}$	50
Powder and f	use	•		•	•	•	•	•		
Fuel . Hardware, to			•	•	•	•	•		76	
Hardware, to	ols, e	etc.	•						282	
177,128 large 6,935 large g 8,780 4 feet	grai	nite b	olocks						12,980	32
6,935 large g	ranit	e blo	eks (e	ulls)					381	85
8.780 4 feet	strai	ght e	dgesto	ne					5,707	26
273 11 feet cir	cula	r edg	estone						279	31
29 large corn	ers a	$nd \ \widetilde{6}$	small	corne	ers				182	
Lumber.									247	45
Advertising Land damage Building Insp									95	
Land damage	s								30,275	00
Building Insp	ector	r's sh	antv						228	38
Sundries									904	
Amount pa	id to	A. I	MeMur	trv:						
348 cu. yds. 1	ock	excar	vating	at §	1.75		\$609	00		
Grading off sl	lones			, 4		·	125	00		
orruging out o	opeo				·	•			734	00
Amount pa	id to	R. A	A. Dav	is:					101	
Final paymen					er con	tract	in 18	93	661	87
Amount pa							111 10	00,	001	· ·
43,509 cu. yd							7 838	60		
Logg amour	o gi	id to	lahoro	ne I	I Cus.	, ΨΙ	477			
Less amour	re pa	10 10	rabore	109			211	02		
						@10	7,360	7.7		
Loggame	4 4	. TTT	n 41.	Cita	Tro		,000	11		
Less amour					rea		5 699	05		
urer but	пот Г	ala	•	•	•		5,633	00	11 505	F 0
						-			11,727	12
()		7							\$004 AFC	
Carried f	orwa	ra,							\$204,476	07

Brought forward,	\$204,476	57
Executions of Court for services rendered by laborers to the Boston Contracting Co	660	06
Amount paid to Fidelity and Deposit Co.:	000	00
14,166 cu. yds. gravel filling, at 41 cts	5,808	06
Amount paid to F. H. Cowin:	-,	
Final payment for work done under contract in		
1893		
4,052 sq. yds. block paving laid, at 35 ets., 1,418 20		
6,014 feet edgestone set, at 8 cts		
13 33	2,702	70
Amount paid to H. Gore & Co.:	-,	• •
1,626 sq. yds. block paving laid, at 35 cts., \$569 10		
854 sq. yds. block paving laid, at 25 ets., 213 50 3,205 feet edgestone set, at 8 ets 256 40		
3,205 feet edgestone set, at 8 cts 256 40	1 000	00
Amount paid to Leguitt Daily & Charlett.	1,039	00
Amount paid to Leavitt, Daily, & Crockett: Building abutments to Cottage Farm bridge, contract		
price \$40,150 50		
price		
$3\frac{3}{10}$ days, foreman, at \$4		
3 days, mason, at \$3.50 10 50		
$6\frac{9}{10}$ days, mason tender, at \$1.50 10 35		
$3\frac{3}{10}$ days, engineer, at \$3 9 90 $3\frac{3}{10}$ days, derrick, at \$1.50 4 95		
$3\frac{3}{10}$ days, derrick, at \$1.50 4 95 $3\frac{3}{10}$ days, engine, at \$2 6 60		
$\frac{12}{10}$ transfer engine, at \$1.15		
	40,219	80
Work done by the Bridge Division	2,954	
Work done by the Sewer Division	46,400	65

Amount paid out of appropriation for	\$304,260	99
Commonwealth avenue \$296,173 56		
Amount paid out of Paving Division . 8,087 43		
	\$304,260	99
Congress and L streets (work uncompleted).	Total	
Labor	\$282	00
Fence	276	
,		
	\$558	00
Cranston street, Ward 23 (unfinished work from 18	893)	
Takan	A 10 F	000
Teaming	96	
Carpentering	34	
Powder and fuse	13	
	\$568	75
Amount of special appropriation	\$568	75

Dartmouth street, Boylston to Newbury street, asphalted.
Labor
Lumber
Paving
Amount paid to J. J. Sullivan for excavating 359
cu. yds., excavation, at 97 cts 348 23
Amount paid to Metropolitan Construction Co.,
274.4 cu. yds., cement concrete base, at \$5.00 . 1,372 00
Amount paid to Barber Asphalt Paving Co., 1,646.3
sq. yds. Trinidad asphalt pavement, at \$2.25 . 3,704 18
\$5,839 65
Day street, Centre to Heath street, graded, heavy Telford-
Macadam road built, edgestones set, sidewalks gravelled,
gutters paved, crosswalks laid, fences built, catch-basins
built.
Labor
Teaming
Gravel
Gravel
2,958 ft. straight edgestones, 2 large and 10 small corners, 1,967–40
$177\frac{7}{12}$ ft. circular edgestone
Sundries
3,702 ft. edgestone set, at 8 cts \$288 16
1,458.8 sq. yds. block paving laid, at
25 cts
10 15 and Johan Labor.
56.3 sq. yds brick paving laid, at 18 ets., 10 13 132 days labor
928 64
\$12,846 02
Amount of special appropriation \$7,500 00
Amount paid out of Street Improvements,
Wards 19 and 22 4,948 33
Amount noid out of Street Improvements
Aldermanic District No. 9 397 69
———— \$12,846 02
Fay street, asphalted.
Advertising
Amount paid to H. Gore & Co.:
250 sq. yds. cobble paving dug out and
relaid, at 75 cts \$187 50
529.7sq. yds. Sicilian rock asphalt laid,
at \$2.25 1,214 32
\$1,401 82
#1 400 00
\$1,408 82
Amount of special appropriation \$1,408 82

Lewis-street extension, graded, paved blocks, edgestones set, brick sidewalks la	with large granite id.
Labor	\$417 85
Teaming	367 00
Gravel	111 34
464 ft. straight edgestone	301 60
75.8 II. Hagging	60 64
10,520 large granite blocks	701 68
1,000 paving brick	13 00
Amount paid to P. W. Hernan: 658.4 sq. yds. block paving, at 25 cts \$	101 00
	35 84
112.6 sq. yds. brick paving laid, at 18 cts.,	20 28
45 sq. yds. flagging crosswalks laid, at	20 20
25 cts	11 25
	231 97
Work done by the Sewer Division	
J	
	\$2,319 29
Amount paid out of appropriation for	
Lewis street	834 79
Amount paid out of Street Improve-	
ments, Ward 6	104 00
	\$2,319 29
Mill street, Ward 24, Houghton street to rail	road, macadamized.
Labor	\$336 65
Teaming	126 50
Gravel	272 25
Stone	. 1,620 50
Rolling	80 00
Work done by the Sewer division	131 10
	#0 FCF 00
Amount of anoisl annuantiation #5	\$2,567 00
Amount of special appropriation \$2,0 Amount paid out of Street Improve-	000 00
	567 00
ments, ward 24 · · · · ·	\$2,567 00
	Ψ2,001 00
Millett street, Ward 24, culvert.	
Labor	\$50 50
Labor	545 38
v	
	\$595 88
Amount of special appropriation	\$595 88
* ** *	
Montview street, Ward 23, graded, macadam	nized.
Labor	\$1,933 02
Ann A	1,275 00
realing	
Carried forward,	\$3,208 02
July 1000 Jol world	#U,200 U2

	•									
Brough	t forwe	urd,							\$3,208	02
Gravel .	•		•	•					443	88
O COLIC .		•	•	•	•	•	•	•	543	
Advertising	•				•				18	38
									\$4,213	28
Amount of							,273	05		
Amount pa										
ments, Al	derma	nic D	istrict	No.	11		,618	55		
Amount pa	id out	t of	Stree	t In	prove	2 -				
ments, W	ards 2	3 and	25				321	68		
						_			\$4,213	28
M4 Vouno	n atma	ot T	Vand (0.4 ~	no do	dama.	M00			
Mt. Verno						uamaş	ges.			
Amount p										
Judgment 1	paid b	y the	railr	oad c	ompa	ny ir	sett	le-		
ment of p										
station cr	ossing					`•	•	• '	\$1,325	00
Amount of	special	appr	opriat	tion	•		•		\$1,325	00
Newport S	troot	Wo	rd 2	4 Cr	aeaan	t 9.776	niio 1	o H	rhor V	10.777
street, ma	andom	, II a	പ്പ ച	etono	escen	contt	ore ne	wod.	1001 .	IC W
	icauan	nzeu,	euge	Stone	A 500,	gum	ers pa	iveti.	4010	0 =
Labor .	* •	•	•	•	•	•	•	•	\$240	
Teaming	•	•	•	•	•	•	•		130	
Gravel .	•				•	•	•	•	107	
Filling .		٠	•	•	•	•	•	•	115	
Stone.							•	•	1,044	
Rolling .							•	•	80	
Paving .		·	·		•	•	•	•	76	
Paving . Work done	by the	Sewe	er Div	ision	۰	•	•	•	109	
									#1 004	
									\$1,904	
Amount of s	special	appr	opriat	ion	•	•	•	•	\$1,904	12
Oak street,	Wast	ainete	n etr	eet t	o Ha	rrison	9 77 0	ו פוומ	w bever	rith
large grai	nite hl	ooke	edres	stone	reset	hric	k side	walk	s relaid	TUIL
			_	Stone	Leset	, DITE	n siu	wain	s relatu.	
810 sq. yds.		-	ng.						0010	00
Labor .			•	•	•	•	•	•	\$916	
Teaming Gravel .	•	•	•	•	•	•	•	•	732	
Gravel.		•	•	•	•	•	•	•	200	30
52 feet of ed	Igestor	1e	•	•	•	•	•	•	33	80
6,650 paving	g-brick			•	•	•	•	•	86	
18,125 large			cks	•	•		•	•	1,208	
40 feet flagg	ing	•	•	•	•	•		•	32	
Masonry	•	•	•		•	•		•		00
Advertising	•								11	00
									40.010	-
									\$3,313	
Amount of s	special	appre	opriat	ion					\$3,313	38
										_

widened, paved with large granite blocks.	Park stre	et,	Charl	lestow	7n, (City	squa	are to	He	enley str	eet,
Advertising						nite b	lock	s.			
Advertising	Labor .	•	•	•	•	• ,					
Advertising	Teaming		•	•	•	•	•	•	•		
Amount of special appropriation	Gravel .		•			•	•	•			
Amount of special appropriation	4,182 large	paving	g-blo	cks			•		•		
Amount of special appropriation	Advertising		•		•	•				5	00
Amount of special appropriation . \$1,138 23 Preston street, Ward 24, graded, macadamized, culvert built. Labor . \$980 67 Teaming . \$339 50 Gravel . \$339 50 Gravel . \$631 95 Filling . \$154 00 Stone . \$2,464 00 Rolling . \$120 00 Amount paid to P. J. Lyons: Building culvert . \$700 00 *\$5,390 12 Amount of special appropriation . \$5,000 00 Amount paid out of Street Improvements, Ward 24 . \$390 12 *\$5,390 12 *\$1,721 55 Teaming . \$289 50 Stone . \$1,721 55 Teaming . \$289 50 Stone . \$25 07 Sand . \$17 00 Lumber . \$147 25 Edgestone . \$23 00 Paint and oil . \$3 14 Cement . \$29 00 Masonry . \$248 50 Pipe . \$26 44 Amount paid to Simpson Bros . * Building granite, cement, wall, and steps. 1,946.3 cu. ft. wall, at 36 cts. \$700 66 768.8 sq. ft. surfacing, at 10 cts. \$76 88 691.3 lin. ft. steps, at \$1.15 . 794 99 1,020 4 sq. ft. platforms, at 30 cts. \$76 88 691.3 lin. ft. steps, at \$1.15 . 794 99 1,020 4 sq. ft. platforms, at 30 cts. \$76 88 691.3 lin. ft. steps, at \$1.15 . 794 99 1,020 4 sq. ft. platforms, at 30 cts. \$76 88 691.3 lin. ft. steps, at \$1.15 . 794 99 1,020 4 sq. ft. platforms, at 30 cts. \$76 88 691.3 lin. ft. steps, at \$1.15 . 794 99 1,020 4 sq. ft. platforms, at 30 cts. \$76 88 620 1.3 lin. ft. steps, at \$1.15 . 794 99 1,020 4 sq. ft. platforms, at 30 cts. \$76 88 621.3 lin. ft. steps, at \$1.15 . 794 99 1,020 4 sq. ft. platforms, at 30 cts. \$76 88 621.3 lin. ft. steps, at \$1.15 . 794 99 1,020 4 sq. ft. platforms, at 30 cts. \$76 88 621.3 lin. ft. steps, at \$1.15 . 794 99 1,020 4 sq. ft. platforms, at 30 cts. \$76 88 621.3 lin. ft. steps, at \$1.15 . 794 99 1,020 4 sq. ft. platforms, at 30 cts. \$76 88 621.3 lin. ft. steps, at \$1.15 . 794 99 1,020 4 sq. ft. platforms, at 30 cts. \$76 88 621.3 lin. ft. steps, at \$1.15 . 794 99 1,020 4 sq. ft. platforms, at 30 cts. \$700 66 1.3 lin. ft. steps, at \$1.15 . 794 99 1,020 4 sq. ft. platforms, at 30 cts. \$700 66 1.3 lin. ft. steps, at \$1.15 . 794 99 1,020 4 sq. ft. platforms, at 30 cts. \$700 66 1.3 lin. ft. steps, at \$1.15	Amount	<i>y</i> aiu u	рган	TCK D	reuna	an:					
Amount of special appropriation \$1,138 23 Preston street, Ward 24, graded, macadamized, culvert built. Labor \$980 67 Teaming 339 50 67 Gravel 631 95 611 95 Filling 154 00 80 Stone 2,464 00 80 Rolling 120 00 Amount paid to P. J. Lyons: 80 Building culvert 700 00 \$5,390 12 Amount of special appropriation \$5,000 00 \$5,390 12 Ruth street, East Boston, extended to Marginal street, graded, heavy granite retaining wall on westerly side, wall, steps, platform, fences, and iron hand-rails built. \$1,721 55 \$720 00 Ruth street, East Boston, extended to Marginal street, graded, heavy granite retaining wall on westerly side, wall, steps, platform, fences, and iron hand-rails built. \$1,721 55 \$2,390 12 Ruth street, East Boston, extended to Marginal street, graded, heavy granite retaining wall on westerly side, wall, steps, platform, fences, and iron hand-rails built. \$2,390 12 \$2,390 12 Ruth street, East Boston, extended to Marginal street, graded, heavy granite retaining wall on westerly side, wall, steps, platform, fences, and iron hand-rails built. \$2,000 12 Labor \$1,721 55 \$2,390 12	917 sq. yds.	. block	c pav	ıng			• 1	•		229	25
Amount of special appropriation \$1,138 23 Preston street, Ward 24, graded, macadamized, culvert built. Labor \$980 67 Teaming 339 50 67 Gravel 631 95 611 95 Filling 154 00 80 Stone 2,464 00 80 Rolling 120 00 Amount paid to P. J. Lyons: 80 Building culvert 700 00 \$5,390 12 Amount of special appropriation \$5,000 00 \$5,390 12 Ruth street, East Boston, extended to Marginal street, graded, heavy granite retaining wall on westerly side, wall, steps, platform, fences, and iron hand-rails built. \$1,721 55 \$720 00 Ruth street, East Boston, extended to Marginal street, graded, heavy granite retaining wall on westerly side, wall, steps, platform, fences, and iron hand-rails built. \$1,721 55 \$2,390 12 Ruth street, East Boston, extended to Marginal street, graded, heavy granite retaining wall on westerly side, wall, steps, platform, fences, and iron hand-rails built. \$2,390 12 \$2,390 12 Ruth street, East Boston, extended to Marginal street, graded, heavy granite retaining wall on westerly side, wall, steps, platform, fences, and iron hand-rails built. \$2,000 12 Labor \$1,721 55 \$2,390 12											
Preston street, Ward 24, graded, macadamized, culvert built. Labor \$980 67 Teaming 339 50 Gravel 631 95 Filling 154 00 Stone 2,464 00 Rolling 120 00 Amount paid to P. J. Lyons: 300 12 Building culvert 700 00 Amount of special appropriation \$5,390 12 Amount paid out of Street Improvements, 390 12 Ward 24 390 12 Ruth street, East Boston, extended to Marginal street, graded, heavy granite retaining wall on westerly side, wall, steps, platform, fences, and iron hand-rails built. Labor \$1,721 55 Teaming 289 50 Stone 252 07 Sand 17 00 Lumber 252 07 Sand 17 00 Lumber 23 00 Paint and oil 43 14 Cement 29 00 Masonry 248 50 Pipe 26 44 Amount paid to Simpson Bros.: 80 Building granite, cement, wall, and steps.	A		1		, .						
Labor	Amount of	specia	1 app	ropria	tion	•	•	•	•	\$1,138	23
Labor	TD	4	337	1 04		1 1		, .	,	1 . 1	*1.
Teaming		reet,	war	a 24,	grae	aea,	maca	adamiz	ea, c		
Gravel		•	•		•	•	•	•	•	W	
Filling		٠	•	•		•	•	•	•		
Amount paid to P. J. Lyons: Building culvert	Gravel.		•		•			•	۰		
Amount paid to P. J. Lyons: Building culvert	Filling .	•	•	•					٠		
Amount paid to P. J. Lyons: Building culvert	Stone .		•	•	•	•	•	•		,	
Amount of special appropriation . \$5,000 00 Amount paid out of Street Improvements, Ward 24	Rolling .				•		•	•	•	120	00
Amount of special appropriation . \$5,000 00 Amount paid out of Street Improvements, Ward 24	Amount p	oaid to	P. 3	. Lyo	ns:						
Amount of special appropriation . \$5,000 00 Amount paid out of Street Improvements, Ward 24	Building cul	vert				•	•	• '	٠.	700	00
Amount of special appropriation . \$5,000 00 Amount paid out of Street Improvements, Ward 24										фг 000	
Amount paid out of Street Improvements, Ward 24	A 4 0		1		4.			m= 000	0.0	\$5,390	12
Ruth street, East Boston, extended to Marginal street, graded, heavy granite retaining wall on westerly side, wall, steps, platform, fences, and iron hand-rails built. Labor								\$5,000	00		
Ruth street, East Boston, extended to Marginal street, graded, heavy granite retaining wall on westerly side, wall, steps, platform, fences, and iron hand-rails built. Labor								900	10		
Ruth street, East Boston, extended to Marginal street, graded, heavy granite retaining wall on westerly side, wall, steps, platform, fences, and iron hand-rails built. Labor	ward 24	•	•	•		8		990	12	Ø5 900	10
heavy granite retaining wall on westerly side, wall, steps, platform, fences, and iron hand-rails built. Labor										\$0,000	12
heavy granite retaining wall on westerly side, wall, steps, platform, fences, and iron hand-rails built. Labor	Duth stuce	4 To	ot Po	aton	oxto	hobe	to W	Langina	1 ctn	ant mund	0.1
form, fences, and iron hand-rails built. Labor											
Labor	form for	one r	nd in	on ha	an or	ila hu	ilt	side,	wan,	, steps, p	rat-
Teaming		ces, a	па п	on na	11ct-12t	115 00				\$1 791	55
Stone		•	•	•	•	•	٠	•	•		
Lumber	Stone	•	•			•	•	٠			
Edgestone	Sand	•	•		•	•	٠	•	•		
Edgestone		•	•		•	•	•	•	•		
Cement	Edgestone	•	•	•		•	•	*	•		
Cement	Paint and oi	1	•	•	•	•	•	•	•		
Masonry	Coment		•	•	•	•	•	•	۰		
Amount paid to Simpson Bros.: Building granite, cement, wall, and steps. 1,946.3 cu. ft. wall, at 36 cts. 76 88 691.3 lin. ft. steps, at \$1.15	Mesonry	•	•		•		•	•	•		
Building granite, cement, wall, and steps. 1,946.3 cu. ft. wall, at 36 cts	Pine	•	•	•		•	•	•			
Building granite, cement, wall, and steps. 1,946.3 cu. ft. wall, at 36 cts	- A 4	eid to	Simi	nson l	Bros.		•	•	•	240	X T
691.3 lin. ft. steps, at \$1.15	Building gra	nite.	emen	it. wa	ll. an	d ster	ns.				
691.3 lin. ft. steps, at \$1.15	1.946.3 cm.	ft. wa	ll. at	36 cts	3.	a stop		\$700	66		
691.3 lin. ft. steps, at \$1.15	768.8 sq. ft.	surfa	cino.	at 10	ets.			76			
1,020 4 sq. ft. platforms, at 30 ets	691.3 lin. ft.	. steps	s, at	\$1,15							
Carpenter work, as ordered: Labor, \$121.50; plus 15%, \$18.22	1,020 4 sq. t	ft. pla	tform	s. at	30 et	S.					
Labor, \$121.50; plus 15%, \$18.22 . 139 72											
	Labor, \$121	.50:1	olus 1	5%	\$18.2	2		139	72		
Carried forward, \$2,018 37 \$2,797 45	, , , , ,	, 1		703							
	Carried	form	Ind				9	32,018	37	\$2,797	45

Brought forward, \$15%, \$13.63	2,018 37 104 56	\$2,797 45
		2,122 93
Amount paid to Geo. T. McLauthlin & Co. Putting up fence and painting Extra work, as ordered	0.: \$335 00 221 97	,
		556 97
Work done by the Sewer Division	• •	109 36
		\$5,586 71
Amount paid out of appropriation for Ruth street	5,029 74	
Wards 1 and 2	556 97	
THE COURT OF THE C		\$5,586 71
		#0,000 12
Second street, I to L street, paved with la	arge granite	blocks.
Labor		\$1,284 95
Teaming		543 00
Teaming		524 54
53,442 large paving-blocks		3,564 58
23,000 paving-brick		287 50
Wharfage		160 68
Amount paid to H. Gore & Co.:		
2,391 sq. yds. block paving laid, at 25 ets.,		
73 feet edgestone set, at 8 cts.	5 84	
470 sq. yds. brick paving laid, at 18 ets.,	$\begin{array}{ccc} 84 & 60 \\ 12 & 25 \end{array}$	
49 sq. yds. block stone crossings, at 25c.,	12 29	700 44
		700 44
		\$7,065 69
STREET IMPROVEMENTS, AL	DERMAN	IC
DISTRICT NO. 1.		
Bennington street, Wordsworth to Sangrade.	ratoga stre	et, filled to
Labor		\$ 1,533 10
	•.	2,204 00
Teaming	•	308 02
Gravel	· · · · · · · · · · · · · · · · · · ·	5 50
Advertising	• •	115 56
	•	
Amount paid out of Street Improvements,		\$4,166 18
Aldermanic District No. 1	3,861 81	
Amount paid out of Street Improvements,	204 27	
Wards 1 and 2	304 37	\$4,166 18
		94,100 10

Chelsea street, Porter street to Chel	sea br	idge,	maca	damized.								
Labor				\$2,986	55							
Teaming		•		1,347								
Stone				3,023								
0 1			•	747								
THE		•	۰									
Rolling		•	٠	940	00							
Advertising	•		•	5	00							
Amount paid out of Street Improvements, Aldermanic District No. 1 \$4,563 93												
Amount paid out of Street Improvement												
Wards 1 and 2		4,486	51									
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•			\$9,050	44							
Moore street, Bennington to Cowper	street	, fille	d and	l gravelle	d.							
Labor				\$259	75							
Teaming	•			236	50							
Gravel				407								
	•	•	•	401								
				\$904								
Amount paid out of Street Improvement												
Aldermanic District No. 1		\$853	70									
Amount paid out of Street Improvement	nts,											
Wards 1 and 2		50	48									
				\$904	18							
				_	-							
New edgestones, sidewalks, and gutt	ers.											
Labor				\$461	82							
From A				63	00							
Gravel				13								
Sand		•	•	11								
Sinu · · · ·	•	۰	•	11	00							
		_		\$549	70							
Amount paid out of street improvement	its, Al	derma	ınıc	# × 10	-							
District No. 1				\$549	70							
W				Ø9 970	0.0							
Work done by the Sewer Division .	٠	•	•	\$2,370	86							
STREET IMPROVEMENTS, AI	DED	MANT	IC D	ISTRICT	7							
NO. 2.	11)1110.	MIAIN.	10 17	15111101								
Alford street, paving, edgestone set												
Labor				\$620	64							
Teaming				72								
Gravel				323								
Amount paid to P. Brennan:	•		•	020	T 1							
1 215 foot of admostance get, at 2 str		907	20									
1,215 feet of edgestone set, at 8 cts.	* *~	\$97 322	50									
1,290 sq.yds. block paving laid, at 25 c	ts.,	322	30									
Carried forward,		\$419	70	\$1,016	11							

$Brought\ forward,$	\$419	70	\$1,016	11
24 sq. yds. brick paving laid, at 18 cts.,	4	32		
			424	02
	_		\$1,440	13
Amount paid out of street improvements, Ald		nic	A	10
District No. 2	•	•	\$1,440	13
Austin street, Washington street to the	railro	ad.	paved w	ith
large granite blocks, edgestones set, bric	k side	wal	lks laid.	
Labor			\$824	25
Teaming		·	232	
Gravel			532	
			2	
Sundries			$1\overline{32}$	
377 feet of granite flagging			290	
32,625 large paving-blocks			2,316	37
Amount paid to John Turner & Co.:			,	
	\$661	50		
787 feet edgestone reset, at 8 cts	62	96		
512 sq. yds. brick paving laid, at 18 éts.,	92	16		
67 sq. yds. crosswalks laid, at 25 cts	16	75		
	\$833			
Less 10,000 old blocks, at \$10	100	00		
			733	37
			*	
			\$5,064	10
Amount paid out of street improvements,	1 1 5 0	0.7		
Aldermanic District No. 2 \$1	1,179	97		
Amount paid out of street improvements,	0 004	10		
Ward 5	3,884	10	\$5.064	10
_			\$5,064	10
ANI				
Chapman street, Rutherford avenue to	Austi	in s	street, pav	red
with large granite blocks, edgestones set,	brick	side		
Labor			\$385	
Teaming	•		415	
Gravel	•		343	
Masonry	•	•	10	
430 feet granite crossing stone	•	•	331	
35,775 large paving-blocks	•	•	2,540	03
Amount paid to John Turner & Co.:	A0 = =			
	\$357			
5.8 feet edgestone, at 65 cts	3			
654.5 feet edgestone reset, at 8 cts.	$\frac{52}{01}$			
506 sq. yds. brick paving relaid, at 18 cts., 111.7 sq. yds. crosswalks laid, at 25 cts.,	$\begin{array}{c} 91 \\ 27 \end{array}$			
111.7 sq. yds. crosswaiks iaid, at 25 cts.,	21	30	532	80
				99
Carried forward,			\$4,557	55
			. ,	

Brought Amount paid	louto	f stre	eet in	prov	emer	ıts,			\$4,557	55
Aldermani Amount paid	ic Dis	trict !	No. 2	2		. \$	33,536	50		
Ward 5	·		•	•	· ·		1,021	05	\$4,557	55
61 1 4	4 7	37 3	4	1	* . 1	1				-
Charles stre	e et, t, brid	w ard ek si d	4, pa lewal	aved ks rel	with laid,	large cross	e gran walks	rela	docks, ed id.	ge-
Labor .										90
Teaming		4							94	
Gravel . 11,400 large	٠.	٠		•		•			112	86
11,400 large	pavin	g-blo	cks	٠	٠	•	•	٠	760	
									\$1,342	64
Main street	, cros	sing.								
Labor .	•	•	.0	•	۰	٠	•	•	\$29	90
Medford str	eet.	work	done	bv t	he W	Test I	End St	reet	Railway (Co.
9,000 large p										
Phipps stre	et, pa	ived relaid	with l	large	gran	ite bl elaid	ocks,	edge	stones res	set,
Labor .							•		\$299	00
Teaming					·				78	50
Gravel .									71	28
Teaming Gravel . 11,210 large	pavin	g-blo	cks	n e			. 1	٠	755	06
2,000 paving	-brick	. `		•			•		<i>≟</i> .x	00
									\$1,227	
70 /2 0 3					~					_
Rutherford	aven	ue, L)even	s to	Chap:	man s	street,	pave	ed with lar	rge
granite blo	cks, t	rick	sidew	alks	laid,	edges	tones	reset	, crosswa	lKs
Labor .									\$1,516	50
	•	•	•	•	٠	•	•	•	441	
Teaming Gravel .	*	•	•	. •	•	•	•	•	589	
Sand .				Ċ		•	•		27	
Advertising				·						
54.034 large	granit	e blo	cks						$\frac{18}{3,701}$	81
Gravel . Sand . Advertising 54,034 large 9,000 paving	-brick		ĵ.						108	00
									\$6,403	09
	, ,									-
Thompson s walks relai	street d, gu	, ma tters	.cada: pave	mizec d.	l, ed	gesto	nes re	set,	brick si	le-
Labor .				1 .					\$161	00
Teaming			• •						46	
Gravel .							0		41	
1,500 paving	-brick		•			•			18	00
									\$267	18
Work	41.	0	D.	via:					\$1,173	-
Work done b	y the	Sewe	er Di	v 15101	l	٠	•	•	Φ1.1(·)	30

STREET IMPROVEMENTS, ALDERMANIC DISTRICT No. 3.

	No.	3.					
Chambers street, Ashlar paved with large gran walks laid, crosswalks	ite bloc	righte cks,	on str edges	eet, stones	widen set,	brick si	de-
Labor	•					\$1,687	74
Teaming						949	50
Gravel						372	40
Sand						45	00
Lumber			•			12	
						6	00
Advertising 243.5 feet, of flagging .				•		219	15
621 feet edgestone, 4 large	e and 4	small	corn	ers		432	75
35,650 large granite blocks 33,500 paving-brick	3 .					432	86
33.500 paving-brick .						418	
range and a second							
Amount paid out of Str ments, Aldermanic Dist Amount paid out of St	trict No reet In	o. 3 aprov	. \$1 'e-			\$6,521	35
ments, Ward 8		•	. (,482	55		
			-			\$6,521	35
Work done by the Sewer	Division	n .	•		٠	\$77	18
STREET IMPROVEM	ENTS, No.		DERI	MANI	IC D	ISTRIC	Г
Court Square, asphalted	on a co	ncret	e bas	e.			
						\$173	20
Labor Teaming	•	•	•	•	•	130	00
Amount paid to Barber A Co., 1,020.7 sq. yds. Tr	sphalt	Pavir	ng	•	·	100	
paving, at \$2.25 . 1,222.5 cu. ft. asphalt con-	crete bi	nder.	. \$2	2,296	58		
32.1 cts				392	42		
		·	_			2,689	00
,							
						\$2,992	20
Amount paid out of St	reet In	aprov	e-		~ =		
ments, Aldermanic Distr	rict No.	4	. \$2	4,457	35		
Amount paid out of St	reet In	aprov	'e-				
ments, Wards 9 and 10		•	•	507	25		
Amount paid out of St	reet In	aprov	e-				
ments, Ward 10.			•	27	60		
			-		_	\$2,992	20

Harrison avenue, Essex to Beach street, graded, widened, paved with large granite blocks, partly on a concrete and partly on a gravel base, with pitch joints; edgestone reset, sidewalks laid and relaid, crosswalks relaid.

Labor					· .		\$2,148 61
Teaming							871 00
Gravel	•	·	•		·	·	306 60
Gravel	۰	۰		•	•	•	$122 \ 51$
Messes	•	•	•	•		•	
Masonry Fuel	•	•	*	•	•	•	126 00
Fuel	•						12 75
Templets	•						38 82
Advortising							41 00
6,115 paving-brick					• .•		79 50
7,404 gallons road-pit	ch		٠				666 36
16-5 feet circular edge	estone						21 34
$91\frac{10}{12}$ feet straight edge	ostono	. *	•	•	•	•	59 80
15 500 laura marin a bl	estone	•	•	•	•		
15,583 large paving-bl			•	•		•	1,039 39
165.7 cu. yds. concret	e base		•	•		•	828 50
182 feet of flagging		•	•	•	•		134 62
Amount paid out of ments, Aldermanic					\$ 308	20	\$6,496 80
Amount paid out of							
ments, Wards 9 and					6.188	60	
monos, wards o and	. 10	•	•	•	0,100	00	#4. 10.0.00
							\$6,496 80
Mason street, asphalt	ed ov	er old	l cobl	olesto	nes.		
Labor					nes.	٠	\$ 157 84
Labor				٠	, •	•	\$157 84 24 00
Labor				٠		•	
Labor				٠	r *		24 00 7 94
Labor		•	•	•		•	24 00 7 94 9 10
Labor		•	•	•			24 00 7 94 9 10 14 00
Labor		•	•	•			24 00 7 94 9 10 14 00 20 15
Labor		•	•	•			24 00 7 94 9 10 14 00 20 15 76 27
Labor	ner	0 0 0	•	•			24 00 7 94 9 10 14 00 20 15
Labor	ner Gore	& Co		•			24 00 7 94 9 10 14 00 20 15 76 27
Labor	ener Gore	& Co	· · · · · · · · · · · · · · · · · · ·		f *		24 00 7 94 9 10 14 00 20 15 76 27
Labor	ener Gore	& Co	· · · · · · · · · · · · · · · · · · ·	at	1,079	55	24 00 7 94 9 10 14 00 20 15 76 27
Labor	ener Gore	& Co	· · · · · · · · · · · · · · · · · · ·	at	1,079	55	24 00 7 94 9 10 14 00 20 15 76 27
Labor	ener Gore	& Co	· · · · · · · · · · · · · · · · · · ·	at	f *	55	24 00 7 94 9 10 14 00 20 15 76 27 8 95
Labor	ener Gore	& Co	·	at	1,079	55	24 00 7 94 9 10 14 00 20 15 76 27
Labor	ener Gore	& Co	·	at	1,079	55	24 00 7 94 9 10 14 00 20 15 76 27 8 95
Labor	ener Gore	& Co	·	at	1,079	55	24 00 7 94 9 10 14 00 20 15 76 27 8 95
Labor	cner Gore on roc	& Co k asp	 ohalt,	at .	1,079	55	24 00 7 94 9 10 14 00 20 15 76 27 8 95
Labor	ener Gore on roc	& Co k asp	chalt,	at	61,079	55 24	24 00 7 94 9 10 14 00 20 15 76 27 8 95
Labor	rner Gore on roc	& Co k asp	phalt,	at \$	61,079	55 24	24 00 7 94 9 10 14 00 20 15 76 27 8 95
Labor	cner Gore on roce	& Cok asp	 phalt, 	at . \$	61,079 137	55 24 06	24 00 7 94 9 10 14 00 20 15 76 27 8 95
Labor	cner Gore on roce	& Cok asp	 phalt, 	at . \$	61,079 137	55 24 06	24 00 7 94 9 10 14 00 20 15 76 27 8 95

Danish and an arrange	2 . 2		. 1 14 .	3			. 1	
Pemberton square, g	graded l, nev	ı, as _l v ed	onante gestor	a on a	a con t, cro	crete sswa	e base, gra alks laid.	ın-
Labor			٠				\$1,555	52
Teaming							1,020	50
Gravel							41	30
Gravel Templets $5,000$ large paving-bloc $46\frac{8}{12}$ feet edgestone			•				12	
5,000 large paving-bloc	ks						333	50
$46\frac{8}{12}$ feet edgestone			•				106	79
Amount paid to Meti	opoli:	tan (Consti	uctio:	n Co.	:		
227.9 cu. yds. cement c	eonere	te ba	ase, a	t \$5	•		1,139	50
Amount paid to H. G				# 0 0 0				
1,373 sq. yds. Sicilian i				\$2.23) ,	•	3,089	25
Amount paid to Simp	oson I	iros.	:	1 .	٠,		4 000	
4,360.7 sq. yds. artificia					25 eta	s.	1,090	17
Amount paid to Jame								
226 sq. yds. block pavi	ng tai	r J01	nts 1a	na	\$203	40		
at 90 cts 27 sq. yds. crosswalks	laid	• • • •	O ota	•	φ205 24			
28 feet edgestone set, a						24		
Labor, and material fun	nigho	d in	cotti	•	2	24		
edgestone and steps					315	85		
edgestone and steps	•	•	٠	•	010	00	545	79
							\$8,934	42
Amount paid out of stre	et im	prov	ement	s.			# U, U U	
Aldermanic District					7,034	66		
Amount paid out of stre	et im	prov	ement	ts,	,			
Amount paid out of street Wards 9 and 10					1,899	76		
				-			\$8,934	42
Washington street,	Esse	x to	Kne	eland	l str	eet,	paved w	ith
large granite blocks	on a	con	crete	base,	edge	ston	e reset, si	de-
walks relaid, crosswa	lks la	id.						
Labor					٠		\$2,946	50
Teaming							1,558	00
Gravel							339	
Templets	•		•	•			26	
Templets Sundries	•		•				89	
1,620 feet of flagging	•	•			•		1,296	
53 ¹¹ feet circular edges	stone		•	•		•	70	
219 ft. straight edgesto 1 large corner .	ne			•	•		142	
1 large corner .	•	•	•	•	•	•	5	0 0
10,500 paving-brick	•	•	•	•	•	•	131	
52,825 large granite blo		•	•	•	•	•	3,523	
1,290 sq. yds. block pa						•	185	30
Amount paid to Meta						:	1.050	00
371.8 cu. yds. cement o				\$5.00		•	1,859	00
Amount paid to H. C				o b				
2,221.8 sq. yds. blo joints, at 90 ets.					000	60		
joints, at 90 cts.	•	•	•	• 🏚	1,999	02		
Carried forward,				\$	1,999	62	\$12,172	38

Brought forward, 1,095 sq. yds. block paving, pitch joints, at \$1.25	\$1,999 1,368 239 14 45 64	75 13 20 09	\$12,172 38 3,731 59
Less amount paid by J. H. Pray's Sons & Co	63 4,999		\$15,903 97 5,062 17
Amount paid out of Street Improvements, Aldermanic District No. 4 Amount paid out of Street Improvements, Ward 10 Amount paid out of Street Improvements, Wards 9 and 10	\$3,276 4,186 3,378	80	\$10,841 80 \$10,841 80
Work done by the Sewer Division	RMANI	·	\$479 41 DISTRICT
NO. 5.			
Harcourt street, retaining-wall built. Labor and inspection	•		\$160 00 22 88
Sundries	•	•	2 50
Building retaining-wall, as per contract.	٠	٠	1,974 00
Amount paid out of Street Improvements, Aldermanic District No. 5 Amount paid out of Paving Division.	\$445 1,713		\$2,159 38 \$2,159 38
Work done by the Sewer Division			\$92 34

STREET IMPROVEMENTS, ALDERMANIC DISTRICT NO. 6.

1.0. 0.		
Ash street (work not finished).		
Amount paid to H. Gore & Co.:		
5 hours labor, stone-cutter, at \$4.50		. \$2 50
	•	
3,000 paving brick, at \$12.50.	•	37 50
71 sq. yds. cobblestone paving laid, at 50 ct	S.	. 35 50
415 feet edgestone reset, at 15 cts	•	62 25
236 sq. yds. brick paving relaid, at 43 cts.		. 101 48
		\$239 23
Essex street, Chauncy to South street. Pa	ved wi	th large granite
blocks on gravel, partly with pitch, an	d part	tly with gravel
joints. Widened, graded, edgestone re	set. si	dewalks relaid.
crosswalks laid.	500, 51	
Labor		. \$2,613 56
Tooming	•	0.626.00
Teaming	•	. 2,636 22
Gravei	•	. 718 96
Masonry		. 377 00
Teaming Gravel Masonry 43112 feet circular edgestone 718 feet straight adgressione and 2 small covered		. 57 09 . 53 28
TIES ICCUSTAINED CUNCOUNCE AND 2 SMAIL COLL	1619	• 99 40
40,700 paving brick		. 508 75
40,700 paving brick		. 429 88
19.175 large granite blocks		. 1,278 97
Amount paid to A. A. Libby & Co.:	•	_,
1,698 sq. yds. block paving, pitch joints,		
et 00 etc.	500 0	20
at 90 cts	20 5	70
497 reet edgestone set, at 8 cts.	99 1	0
41 sq. yds. brick paving laid, at 18 cts	7 8	58
68 sq. yds. flagging crosswalks laid, pitch		
joints, at 90 cts	61 2	80
joints, at 90 cts. 1,256 sq. yds. block paving, gravel joints,		
	314 (00
6 sq. yds. brick paving, herring-bone, at		
36.1 cts	2 1	7
		- 1,952 71
Amount paid to Doherty & O'Leary:		1,002 11
1,442 sq. yds. block paving, pitch joints,	007 0	26
at 90 cts	1,297 6	0
652 feet edgestone set, at 8 cts.	52 1	b
at 90 cts	95 5	98
70 sq. yds. flagging crossings, pitch joints,		
at 90 cts	$-63 \ 0$	00
at 90 cts	1 7	5
	***************************************	- 1,510 29
		\$12,136 71
		W12,100 11
Essex and Lincoln streets, (Burnt district	ct).	
Amount paid to A. A. Ellston:		
		. \$1,455 00
, , , , , , , , , , , , , , , , , , , ,		

Foundry st	ocks.	Wo	rk do	ne by	the I	stree Brook	et.	Gas I	ight Co	
Labor . Teaming 37,495 large					•				\$7 252 2,500	87
Teaming									252	00
37.495 large	granit	te bloc	eks		•				2.500	92
31,100 1018	8		0 2 2 13	•	•	•	•	•	2,000	
Tufts stree	et.								\$2,760	79
									\$240	9 =
Labor .	•	۰	•	٠	*		•	•	\$240	00
Teaming	•	•	•	•	0	•	•	•	104	
									\$344	
Work done	by the	Bridg	ge Di	vision	l •	•	•	•	\$6,586	70
STREET	IMPR	OVE	MEN	TS,	ALD:	ERM.	ANI	C DI	STRIC	${f T}$
				No.	7.					
Boston stramized.	eet, A	ndrev	w squ	are t	o Mt	. Ver	non	street	t. Mac	ad-
Labor .									\$2,076	61
Teaming	•								523	50
Gravel .									53	50
Stone .									6,251	
Stone . 1,420 small	blocks								75	
500 paving-	brick	į.					•	•	. 6	
Crossing-ble	neks			•	•	•	•	•	325	
Rolling	JUILD	•	•	•	•	•	•	٠	475	
Advertising	•	4	•	•	•	•		•	11	
Advertising	•	•	•	•	•	•	۰	•	11	
Amount	naid c	out of	f Str	eet.]	Impro	VP=			\$9,798	34
ments, Alde	rmanic	Dist	rict N	0.7	•	. \$3.	130	77		
Amount	paid o	out of	f Sti	eet]	Impro	ve-		•		
ments, War	d 15		•			. 6.	667	57		
									\$9,798	34
Work done	by the	Sewe	er Div	rision	•	•	•	•	\$215	52
STREET	IMPR	OVE		TS,		ERM	ANI	C DI	STRIC	Г
Albany str	eet, a	t Mas relai	sachu d.	setts	avenu	ie. I	Repa	ved;	edgesto	nes
Labor .			• :						\$1,444	72
Teaming							9		749	
Gravel .							•		442	
348 ft. flagg	ing		,				,		278	40
Teaming Gravel . 348 ft. flagg 12,800 large	pavin	g-bloc	ks		•		٠	•	896	00
									\$ 3,810	

Brough	t forward	7,						\$3,810	76
Amount	paid out	of St	treet	Impro	ove-				
Aldermanic	District	No. 8.			. \$:	2,057	45		
Amount	paid out	of St	reet	Impro	-97C				
ments, War	ds 17 and	d 18 .		• -		857	31		
Amount p	aid out o	of Pavin	ig Div	vision		896	00		
					-			\$3,810	76
Massachuse	etts_ave	nue, A	lbany	to W	Vash	ingto	a sti	reet. W	ork
unfinished	. Sicili	an rock	aspl	halt o	a a	conci	ete	hase, ed	ge-
stone res				gran	olith	ic si	dewa	lks built	in
front of h	ospital b	uildings	В.						
Labor .	. ,			•	•			\$1,341	93
								678	
Gravel.					•			260	02
Stone .		•					•	340	90
Stone . Advertising				•				8	40
Sundries								189	62
262 ft. flagg 688 ft. strai	ing .							209	60
688 ft. strai	ght edge	stone						447	19
104 ft. circu	lar edge	stons		•				135	20
104 ft. circu 7 large and	2 small	orners				•		45	90
1,000 large	paving-b	locks						70	00
900 paying-	brick .							11	70
Amount p	aid to J.	J. Sull	ivan:						
876 cu. yds.	earth ex	cavated	l, at 7	75 cts.		\$657	00		
566 sq. yds	s. cobble	e-stones	remo	oved,	at				
12.2 cts.						70	75		
								727	7 5
Amount p	aid to M	etropoli	tan C	onstru	etio	n Co			
693 cu. yds.	coment	concrete	hage	onstru		п Со.	•		
\$5.00	cement	COHCICK	Dasc	,	· \$:	3 465	00		
\$5.00°. Extra work	as order	od .	•	•	ه چېو	17	80		
Extra work	as ordere		•	•	•	11		3,482	80
A 4		(1	o CI-					0,402	00
Amount p	aid to H	. Gore	& U0.	, : - 4 # 0 0	r da-	1 101	0.5		
525 sq. yds.	Sichian	оск азр	nan,	at \$2.2	(a)	1,101	20		
less 15%	retained	•	•	*	•	177	19	1 004	0.0
								1,004	00
1,979 ft. edg	gestone r	eset, at	18 ct	S.	•	\$356	22		
98 sq. yds. l	orick pav	ring laid	, at 4	3 cts.	•	42	14		
221 sq. yds.	brick pa	ving lai	id, at	28 cts	• •	61	88		
60.5 sq. ye						0.4	~ ~		
40 cts. 68 sq. yds.		. 1			• ,,	24			
			l, at	35 cts	• •	23			
$10\frac{1}{9}$ days sto				• .		45			
33 days labo	or cement	ing joir	its	•	٠,		66		
$2\frac{1}{2}$ barrels A				a 1a	•		13		
373 sq. ysd.	рюск ра	aving di	ig and	a laid	•	130	99	000	0.9
								693	00
Carried	forward	,						\$9,647	40

\$16,365 65

$Brought\ forward,$						\$9,647	40
Amount paid to Simp	son Bro	os.:					
4,608 sq. ft. artificial st	tone sid	ewalk	•		•	1,152	00
						\$10,799	40
Amount paid out of	Street	Impre	ove-	1			
ments, Aldermanic Dict	trict No	. 8 .	. \$	7,529	93		
Amount paid out of	Street	Impro	ove-				
ments, Wards 17 and 1	8.			3,269	47	*	
						\$10,799	40
Work done by the Sew	er Divi	sion .				\$581	91
Work done by the sen	01 20111	DIOIX 8	•	•	•	ΨΒΟ1	-
STREET IMPROVE	MENT	S. AI	DERI	MANI	CI	DISTRIC'	Г
		io. 9.				32,,22020	_
Dwoolding groups	T	~ d		4-	D . 11		4
Brookline avenue,			avenue	to to	вене	evue stre	eet.
Widened, graded, ma						4040	0.0
Labor		•	•	٠,	۰	\$349	60
Teaming		•	a -	•	•	190	00
Filling		•	•	•	•	416	
Filling Stone	• •	•		•		766 180	00
Rolling	• •	•	•	•	•	180	00
						¢1 000	00
						\$1,902	60
Heath street, Trem	ont to	Dov	etruat	w	iden	hern be	ho
macadamized, edges	tona sa	t brie	dz eide	walks	lai	d sidowa	llze
gravelled, crosswalks	laid.	fences	built.	, w carre	101	a, siac wa	1113
Labor	, itting	1011005	Dallos			Ø0 571	0.0
Tagor	•	•	•	•	•	\$2,571	
Teaming Gravel	• •	4		•	φ.	2,250	
Cand	•	2	۰		•	2,864 543	
Sand	•	٠	•	•		5,733	
Dolling.	• •	•	•	•	•	220	10
1812 foot aircular adre	otono .	•		•		217	95
1 155 foot straight adge	stone .	•	•	• :	•	751	
1,155 feet straight edge	stone .	•	•	•	• .	46	
4 000 paying brick	• •	•	•	•	*	50	
1 000 large granite bloc	ke .		•	•	•	. 70	00
4,000 paving brick. 1,000 large granite block 4,327 small granite block 161 feet flagging.	oka •	•	•		• .	• 70 53	38
161 feet flagging .)ILG 8	•	•	•		114	31
Amount paid to T. H			vson•	•	•	***	02
2,497 feet edgestone set				\$199	76		
508 sq. yds. block pavid	or laid.	at 25 c	ets	127			
1.193 sa vds round-si	tone na	vino l	aid.	~ 1			
at 25 cts	·			298	25		
723 sq. vds. brick pavir	ng laid.	at 18 c	ets.	130 122	14		
Extra labor, as ordered	-5,			100	F 0		
,				122	90		
		•	•	122	00	~ 877	65
	· ·	•		122	00	877	65

sidewalks					dami	zed,	edges	tone	set, brick	k
Labor .									\$269 19	9
Teaming									226 50	0
Gravel .							,		300 96	0
Sand .									97 20	0
Stone .									108 90	0
Rolling .			4						40 00	0
382-8 feet ed	lgesto	ne							248 78	3
4 small corne	ers								13 40	0
4 small corne 7,500 paving	-brick							4,	93 78	5
Amount pa				Co.						
668 feet edge							\$53	44		
209 sq. yds.					25c.		52	25		
16.3 sq. yds.	roun	d pay	ing l	laid, a	t 25c		4	07		
303 sq. yds.	brick	sidev	valks	laid,	at 18	e,	54	54		
• •				Í		,			164 30	0
									\$1,562 83	- 7
									Ψ1,002 0	4
Work done	by the	e Sew	er D	ivisio	n.	•	•	•	\$4,225 78	5
										1
STREET	IMP	ROVI	EME			DERI	MANI	C DI	STRICT	
				NO.	11.					
Henshaw st	treet	(wo	rk do	ne in	1898	3).				
1,725 gutter-						_			Ø10 90	1
1,720 guitter-	DIOCK	3	•	•	•	•	•	•	\$48 30	
Lagrange s										
). (irade	d, m						ished work velled, cul	-
verts built). (irade	d, m						velled, cul-	<u> </u>
verts built Labor .). (end)	irade	d, m						velled, cul- \$2,378 40	- 0
verts built Labor . Teaming). (end	Arade es bu	d, m	acada	imize	d, sid	lewalk •	s gra	\$2,378 40 1,080 50	- COO
verts built Labor . Teaming Gravel .). (end	rade es bu	d, m			d, sid		s gra	\$2,378 40 1,080 50 1,287 36	
verts built Labor . Teaming Gravel .). (end	rade es bu	d, m	acada	imize	d, sid	lewalk •	s gra	\$2,378 40 1,080 50 1,287 30 491 00	- x - 0 0 6 0
verts built Labor Teaming Gravel Stone Powder and). (end	årade es bu	d, m	acada	imize	d, sid	lewalk •	s gra	\$2,378 40 1,080 50 1,287 36 491 00 93 00	
verts built Labor . Teaming Gravel . Stone . Powder and Lumber .). (end	Årade es bu	d, m	acada	imize	d, sid	lewalk •	s gra	\$2,378 40 1,080 50 1,287 36 491 00 93 00 32 38	
verts built Labor Teaming Gravel Stone Powder and). (end	årade es bu	d, m	acada	imize	d, sid	lewalk •	s gra	\$2,378 40 1,080 50 1,287 36 491 00 93 00	
verts built Labor . Teaming Gravel . Stone . Powder and Lumber .). (end	Årade es bu	d, m	acada	imize	d, sid	lewalk •	s gra	\$2,378 40 1,080 50 1,287 36 491 00 93 00 32 38	
verts built Labor . Teaming Gravel . Stone . Powder and Lumber . Fuel .	fuse	årade es bu	d, m	acada	imize	d, sid	lewalk •	s gra	\$2,378 40 1,080 50 1,287 36 491 00 93 00 32 38 2 33	
verts built Labor . Teaming Gravel . Stone . Powder and Lumber .	fuse	årade es bu	d, m	acada	imize	d, sid	lewalk •	s gra	\$2,378 40 1,080 50 1,287 36 491 00 93 00 32 38 2 33	
verts built Labor Teaming Gravel Stone Powder and Lumber Fuel Sycamore s Labor Washington	fuse	árade es bu	d, milt.	acada		d, sic	·	s gra	\$2,378 40 1,080 50 1,287 36 491 00 93 00 32 38 2 35 \$5,364 93	
verts built Labor Teaming Gravel Stone Powder and Lumber Fuel Sycamore Labor Washingtor macadamiz	fuse	árade es bu	d, milt.	acada		d, sic	·	s gra	\$2,378 40 1,080 50 1,287 36 491 00 93 00 32 38 2 38 \$5,364 93	
verts built Labor Teaming Gravel Stone Powder and Lumber Fuel Sycamore Labor Washingtor macadamiz Labor	fuse	árade es bu	d, milt.	acada		d, sic	·	s gra	\$2,378 40 1,080 50 1,287 36 491 00 93 00 32 38 2 38 \$5,364 93 \$46 00 ne, graded \$251 70	
verts built Labor Teaming Gravel Stone Powder and Lumber Fuel Sycamore Labor Washingtor macadamiz Labor Teaming	fuse	árade es bu	d, milt.	acada		d, sic	·	s gra	\$2,378 40 1,080 50 1,287 36 491 00 93 00 32 38 2 33 \$5,364 93 \$46 00 ne, graded \$251 70 809 00	
verts built Labor Teaming Gravel Stone Powder and Lumber Fuel Sycamore Labor Washingtor macadamiz Labor	fuse	árade es bu	d, milt.	acada		d, sic	·	s gra	\$2,378 40 1,080 50 1,287 36 491 00 93 00 32 38 2 38 \$5,364 93 \$46 00 ne, graded \$251 70	

Sı	REET	r De	PART	MENT	— I	AVIN	G Di	VISIO	on. 197
Brough Filling . Stone . Lumber . Advertising	t foru	card,							\$2,723 90
Filling .									1,618 35
Stone .									2,167 00
Lumber.									121 04
Advertising							•		7 95
Amount paid	dont	of Str	oot Tr	nnrot	raman	ta			\$6,638 24
Alderman	ic Di	strict	No.	прто v 11	emen	us,	3 549	07	
Amount paid	lout	of Str	eet Ir	nprov	emen	ts.	,0,010	•	
Amount paid Wards 23	and	25					3,089	17	
									6,638 24
Wilson squ	ıare.	Cor	acrete	e side	walks	a			
Amount p	aid to	Sim.	pson	Bros.	:				
1162.3 sq. y	ds. n	ew c	oncre	te sid	lewal	ks,			
at \$1. 26.5 sq. yd						. \$	1,162	30	
26.5 sq. yd	s. co	ncrete	e side	ewalk	s res	ur-			
faced, at	65c.			•			17	22	
									\$1,179 52
Work done	by th	ie Bri	dge L)ivisio	n.	•	•	•	\$344 93
XX7 1 1	2 .3	~	70						#2.010.00
Work done	by th	ie Sev	ver D	1V1S10	n.		٠	•	\$2,013 20
STREET	IMP	ROV	EME	NTES	ΑТ	DEB.	MAN	TO T	DISTRICT
STREET	TWL	NOV.	EMLE	No.		DER.	MIMIN	10 1.)ISTRICT
TD 1 4	4 70				12.				
Park stree	L. IVI	Lacada	amızı	ng.					
Labor .	•	•	•	•	•	•	•	•	\$465 21
Teaming	•	•	•	•	•	•	•	•	129 50
Gravel .	•	•	•	•	•	•	•	•	677 10
Stone .	•	•	•	•	•	•	•	•	2,175 63
Rolling	•	•	•	•	•	•	•	•	170 00
Paving .	•	•	•	•	•	•	•	•	68 55
Labor . Teaming Gravel . Stone . Rolling Paving . Advertising	•	•	•	•	•	•	•	•	7 50
									\$3,693 49
Amount pa	id on	t of	Stre	et T	mnro	70-			φυ,0υυ 4υ
ments, Al	derm	anic T	Distri	et No	. 12	, s	1.673	54	
A		4 - 0	04	- A T.					
ments. W	ard 2	4	2010				1.576	10	
ments, Wa	lont	of Pa	ving	Divis	ion		443	85	
The state of the s									\$3,693 49
Work done	by th	e Sew	ver D	ivisio	n				\$217 15

Work done by the Sewer Division . . .

STREET IMPROVEMENTS, WARDS 1 AND 2. New Edgestones, Sidewalks and Gutters. Teaming \$409 50 748 33 Gravel . 90 00 Sand Paid to J. B. O'Rourke & Co.: 1,397.4 sq. yds. block paving laid, at 296 68 206 days' labor 414 57 1,060 61 \$2,308 44 Work done by the Sewer Division . . . 2,791 92 STREET IMPROVEMENTS, WARD 3. Sprague street. Graded, macadamized, edgestone set, brick sidewalks laid, gutters paved. Labor . \$1,069 50 314 50 Teaming Gravel . 294 12 Stone . 809 92 23 84 Lumber. 1 small corner 3 75 Advertising . . 16 20 \$2,531 83 Work done by the Sewer Division . . . \$16 75 STREET IMPROVEMENTS, WARD 5. Charles-river bridge. Electric signals to notify when the draw is off. Labor . \$266 34 Teaming 55 50 Gravel . 61 85 9,000 paving-brick . 108 00 4 00 Masonry . Electric signals . . . 400 00 \$895 69

Work done by the Sewer Division

\$308 19

STREET IMPROVEMENTS, WARD 6.

Batterymarch	street	at D	Iilk s	street.	. Gr	aded,	wideı	ned, pav	ed.
Labor								\$437	
Labor Teaming .								130	00
Gravel	•							74	80
Pebbles .	•					Ĭ			00
Pitch								78	
21 ft. flagging		•	•	•	•	4	•	16	
2 100 large gran	nite bloc	·ka	•	•	•	•	•	147	
2,100 large gran 500 paving-bric	le	IKO	•	.*	•	•	•	6	
ooo paving-bite		•	•	•	•	•	•		
								\$924	39
Charter street stone paving,	edgesto	one re	Uni	ity str sidew	eet. alks r	Aspl elaid.	alted		
Labor	•			۰			•	\$658	
Teaming .					•			277	50
8,600 paving-br								107	50
Amount paid	to Barb	er As	sphal	t Pav	ing C	0.:			
631.3 sq. yds.	Trinid	lad a	aspha	alt pa	aveme	nt la	id,		
at \$2.25 .	•							1,420	43
Amount paid	to Jame	es Gr	ant	& Co.	:				
671 sq. yds. rot									
25 cts						\$167	75		
25 cts 688.5 ft. edges	tone set	. at 8	ets.			55			
8.6 sq. yds. bi	rick pay	zing l	aid.	herrin	0-				
bone, at 18 c	ts.					59	22		
bone, at 18 cm 40 sq. yds. cros	swalks l	laid a	t 25	ets.		10			
20 091 3 101 0200				0000	•			295	15
								\$2,758	93
Work done by	the Sew	er Di	ivisio	n.	•		•	\$681	20
								Telli-manus	
STR	EET I	MPR	OVE	MEN	TS	WAR	D 7.		
Bowker street granite block reset, brick s	s on a	grav	el ba	asė, v	vith p	itch j	aved joints,	with la edgest	rge
Labor			,					\$819	18
	•	•	۰	•	•	•	•	774	
Teaming .			•	• .	. •	•	. •	186	
Gravel	٠	•	•	٠	•		۰	130	
201 ft. edgeston	е.	•	•	•	•		•		
4 small corners	•	•	•	•		•	•	$\begin{array}{c} 15 \\ 97 \end{array}$	
122 ft. flagging 10,000 paving-b		•	*,	•	•	0	•		
10,000 paving-b	rick	•	٠	•	•	٠		125	00
31,432 large gra	inite blo	ocks		•	•	•	•	2,096	
Advertising .	•		•		•	•	•	18	
Sundries .		•	•	•	•	•	. ,	21	90
Carried for	ward,							\$4,284	92

Amount p	t forward,							\$4,284	92
1.477.4 sq	yds. blo	ek p	aving	g, pite	ch ø	1,329	66		
686 ft. edge	90 cts.	• 9t 8 c	ta.	• .	• Ф				
419 sq. yds					s.	54 75	42		
110 bq. j ab	, sitest part		iciy iii		-			1,459	96
								\$5,744	88
Less amour	t paid by	West	End	l Stre	et			. ,	
Railway (Company		•			\$325	50		
Less amour		Bow.	ker,	Torre	Уı	000	0.0		
		•	* * * * * * * * * * * * * * * * * * * *	0 04 -	•	200			
Less amoun	t paid by J	ames	W . 'J	ruits.	•	35	00	500	50
								560	90
								\$5,184	38
Amount pai								. ,	
Ward 7				•	. \$	4,730	82		
Amount pai									
Wards 7	and 8.	•	•	٠	•	453	56	Ø# 104	90
					_			\$5,184	
Causeway granite bl reset, gra walks laid	nolithic sid	verhil concre lewalk	te ba	Nashu ise, w ilt, bri	a str ith p ick s	eet. pitch idewa	Pave joint lks r	ed with la s, edgeste elaid, cro	rge one oss-
Labor .								\$2,948	24
Teaming					•			2,522	
Gravel .		•					•	543	
Sand . Templets								90	00
Templets				•				18	
Advertising		•	•		•	•		9	
Pebbles .		•	•	•	•	•	•	85	
Sundries		:	•	•	•	•	•	33	
87,100 large	granite bl	ocks	•	•	•	•	•	5,809	
1,968.3 ft.	or nagging	•	•	•	•	•	•	1,701	
228 ft. of ee 2 small corn		•	•	•	•	•	•	148	
9,832 pavin	ners .	•	•	•	•		•	120	
Amount	paid to Met	ropoli	tan C	Constr	netio	n Čo.	:	120	10
686 cu. yds							٠.	3,430	00
	oaid to War							-,	
2,414.4 sq. Amount p	ft. artificial paid to Jam	l stone es Gra	e side	walk, co.:	at 1		•	342	62
4,512 sq. yc		ving,	pitel	joint					
at 90 cts.			•	•	. \$4	1,060			
810 ft. edge	stone set,	at 8 ct	ts.			64			
343 sq. yds.	brick-pavi	ng lai	a, at	18 cts	• •	61			
731 sq. yds.	block pavii	ng laic	i, at	oo ets	• 9	255	89	1.449	10
						-		4,443	19
Carried	l forward,							\$22,253	52

Brought forward, Less amount paid by the West End Street Railway Co \$2,390-73 Less amount paid by the Boston & Maine Railroad Co 292-81 Less amount paid by the Brookline Gas Light Co	\$22,253 52 2,792 71
Amount paid out of Street Improvements, Ward 7	\$19,460 81
Amount paid out of Street Improvements, Wards 7 and 8	\$19,460 81
North Margin street. Graded.	
Labor	\$71 30 30 60
	\$101 30
Salt lane, Union street to Creek square. Paved blocks taken from Causeway street, on a grave pitch joints, brick sidewalks laid, edgestone reset.	with granite el base, with
Labor	\$232 10
Teaming	105 00
Pitch	48 87
1 500 paying heigh	13 20 19 50
Pitch Pebbles 1,500 paving brick Sundries	2 00
	\$420 67
Work done by the Sewer Division	\$75 88
STREET IMPROVEMENTS, WARD	8
Barton court, Barton to Brighton street. Asphalted stones, edgestone reset, brick sidewalks laid.	
Labor	\$165 60
Teaming	99 00
3,000 paving-brick	37 50
Advertising	5 00
Advertising	406 35
	\$713 45
Amount paid out of Street Improvements, Ward 8	
Amount paid out of Street Improvements,	
Wards 7 and 8	
	\$713 45

Cambridge street, J	ov stu	oot to	o Roy	wdoi	n e0110	מינ	Payod w	ith
large granite blocks								
stone reset, brick sic								0
Labor					•		\$1,277	36
Teaming							644	
Advertising		•					31	40
Gravel	•		•	•	٠	۰	318	
ваци	⊕ 2 = 1 ~,	•	•	•	•	•	99	
Pebbles	•	•	•	۰	٠	•	44 9	
Templets	oolzá	•		•	•	•	3,836	
23,000 paving-brick	OCKS		19		•	•	280	
40 feet edgestone.							28	
1 large corner .	,						5	60
704 feet flagging .		•		۰	•	•	698	72
Amount paid to Met		tan C	onstr	ructio	on Co.	:		
431 cu. yds. cement co							2,155	00
Amount paid to S. &	R. J	. Lor	nbard	l :				
427 cu. yds. earth exca					\$64	05		
1,928 sq. yds. paveme	nt rem	oved			289	20		
							353	25
Amount paid to H.	Gore &	c Co.	0					
1,991 sq. yds. block pa				ts,				
at 90 cts				. 9	\$1,791			
1,222 feet edgestone re	eset, a	t 8 ct	ts.		97	76		
756 sq. yds. brick pavin	ıg relai	id, at	18 ct	s.,	136	08		
752 sq. yds. block	paving		015	10				
pitch joints, at 1.087 14 sq. yds. block			8817	42				
gravel joints, at .217	oaving 7	1	3	Ω4				
53 feet edgestone re	set a	t.	υ	U- X				
.652			34	56				
$51\frac{4}{9}$ days stone-cutt	er, a			-				
			201	30				
$2\frac{2}{9}$ days rammer, at \$2		•	4					
$2\frac{2}{9}$ days laborer, at \$1.	74	•	3	86				
		\$1.	,065	00				
Add 15%			159	75				
		_			1,224	75		
							3,250	49
							\$13,032	69
Amount paid by the Br	rooklin	ne Ga	s Lig	ht			,	
Co				. 8	\$2,272	07		
Amount paid by the	West	End	Stre	eet				
Railway Company	•	•		•	2,105	60	4 - 2	0.5
							4,377	67
							@Q 655	0.3
							\$8,655	02

Amount paid out of Street Improvements, Ward 8 \$3,077 21 Amount paid out of Street Improvements,	
Amount paid out of Street Improvements, Wards 7 and 8 5.577 81	
wards (and 0	\$8,655 02
Observations of work Court De land A A L M	1.1.1
Chambers street, Green to Poplar street. Asphalted of stones.	over cobble-
Labor	\$271 34
Teaming	188 00 34 20
Templets	7.12
Amount paid to Barber Asphalt Paving Co.:	
1,098.7 sq. yds. Trinidad asphalt laid, at	
\$2.25	
22.1 Sq. yas. asphant repairs, at \$2.00 . 00 20	2,502 32
	\$3,002 98
Amount paid out of Street Improvements,	
Ward 8	
Wards 7 and 8	
	\$3,002 98
Work done by the Sewer Division	\$867 73
STREET IMPROVEMENTS, WARDS 7 AN	D 8.
Work done by the Sewer Division	\$151 85
STREET IMPROVEMENTS, WARD 10.	
Work done by the Sewer Division	\$785 60
STREET IMPROVEMENTS, WARDS 9 ANI	D 10.
Derne street, Hancock to Temple street. Paved w	rith asphalt
blocks, edgestone reset, brick sidewalks relaid.	
Labor	\$250 73
Teaming	134 00
Amount paid to John Turner & Co.: 135 sq. yds. asphalt blocks on a concrete	
base, at \$1.40 \$189 00	
224 ft. edgestone set, at 25 cts	
131 sq. yds. brick paving, at 45 cts 58 95	
3½ days' pavers, rammers, and	
tenders, at \$8 \$28 00 days' stone-cutter, at \$4 . 2 00	
Carried forward, \$30 00 \$303 95	\$384 73

Brought forward, 1 double load of gravel	\$30 2	00	\$303	95	\$384	73
19.2 ft. edgestone and circles, at \$1.13	21	70				
179.6 ft. straight edgestone, at .626	112	43				
2 small corners, at \$3.13		26				
3,968 paving-brick, at \$8.696,	34	51				
459 sq. yds. asphalt blocks on cracked stone and gravel						
bed, at \$1.087	498	93				
4.11.4" of	\$705					
Add 15%	105	87	811	70		
					\$1,115	65
					\$1,500	38
Charles street, Cambridge to	Pincl	kney	street	(wes	terly sid	e).
Paved with large granite blo- joints, edgestones reset, sides				base	, with pr	ten
Labor		. 0100104			\$1,487	79
Teaming					557	
Gravel					224	20
Sand					96	30
Templets					9	
Advertising					26	
Advertising	•	•		•	2,452	
	•	•	•	•	100	
254 ft. flagging	•	•	•	•	223	52
Amount paid to Metropolitan			on Co.	:		
327.2 cu. yds. cement concrete		at \$5	•	•	1,636	00
Amount paid to F. H. Cowin			*			
1,000 ft. édgestone set, at 18 et 1.512 sq. yds. block paving pitch	ed joir	ats,	\$180	00		
at 90 cts			1,360	80		
391 sq. yds. block paving, grav	el joi	nts,	0.7	75		
at 25 cts	4	•	97			
757 sq. yds. brick paving, at 28 $13\frac{5}{9}$ days' stone cutter, at \$4.50	o cts.	٠	211	00		
10g days stone cutter, at \$4.50	*	•			1,911	51
T	7 (%)				\$8,725	67
Less amount paid by West E. Railway Co	na St		31,596	66		
Less amount paid by Brookline (tas Li		01,000	00		
Co			1,118	76		
					2,715	42
					\$6,010	25

Amount paid of Wards 9 and Amount paid of	d 10 out of	Pavi	ng D	ivisio	nent • •n	. \$. . \$.	5,946 64	14	\$6,010	
Work done by	the S	ewer	Divi	sion		•			\$ <u>525</u>	64
	REET									
Work done by	the S	Sewer	Divi	ision	•	*.	•	٠	\$124	26
STI	REET	IMI	PRO	VEM	EN'	rs,	WAR	D 14	Ł.	
East Eighth blocks, edge								ith la	arge gran	ite
Labor .						•		٠	\$2,729	
Teaming		•	,		• /	•	•	•	797	
	• •		•	•		•	•	۰	668	
	• •		•	•	0	•	۰	•	15	0.0
Wharfage 66,629 large g	·	hlool	l- ~	•	•	•		۰	157 $4,444$	20
66,629 large g	ranne	proc	KS		•	•	•	٠	546	10
43,700 paving 117 recut cros	-Drick	laaka		•	• '	•	•	۰	58	
Amount noi	sing-o	TOCKS	210 P-	·Co.	•	•	•	•	90	90
Amount pai	u to F	1. UU	ore &	loid	0.4	95				
3,242 sq. yds	. Dioc.	к ра	ving	raid,	at	20 .	\$810	50		
ets 2,202 ft. edge	otono	rogot	04.8	R ofa	•	•	176			
2,202 It. eage	Stone	reset.	, au c	loid.	0.4	1 9	170	10		
1,467 sq. yds	s. Drie	к ра	ving	iaiu,	સા	10	264	06		
cts	•	•		•	•	•	204		1,250	79
									\$10,668	07
New edgest	ones,	sidew	alks	, and	gut	ters:				
Labor .				•	٠		•	•	\$171	
Teaming		•	•		٠	•	•	•	78	00
									\$249	35
Story street.										
Labor .									\$50	60
PND 8	•						•		18	
2000000										
									\$68	
Work done by	y the l	Bridg	e Di	vision	ı			•	\$291	58
Work done b	y the	Sewe	r Div	ision		•	0		\$25	85

Stone .

360 small blocks .

1,800 paving-brick

427 ft. flagging

STREET IMPROVEMENTS, WARD 15.

New edgestones, sidewalks, and gutters: \$178 15 Labor
Teaming
Vale street. Filling. Filling
Vale street. Filling. Filling
Vale street. Filling. Filling
Filling
Filling
Amount paid out of Street Improvements, Ward 15 \$426 80
Ward 15 \$426 80
Amount paid out of Paving Division . 284 35
\$711 15
Work done by the Sewer Division . \$18 68
STREET IMPROVEMENTS, WARDS 17 AND 18.
Dortmonth street Transant street to Warran avenue David
Dartmouth street, Tremont street to Warren avenue. Paved with granite blocks taken from Dover and Albany streets, edge-
stone reset, brick sidewalks relaid, crosswalks laid.
Labor
Teaming
Teaming 1,080 00 Gravel 192 90 Masonry 125 50 Stone 84 15 193 ft. flagging 137 03 6,950 paving-brick 90 35 3,000 large granite blocks 210 00 1.488 sq. yds. granite blocks taken from Albany and Dover streets 2,232 00
Teaming

\$624 49

133 00

19 08

38 43

23 40

STE	REET	DEF	PARTM	IENT	— P	AVING	Dr	VISION	. 2	07
Wilkes stree	at	Grad	Ба							
									\$49	e O
Tagming.	•	•	•	•	•	•	•	•	12	
Teaming Masonry		•	•	•	•	•	•	•	- 70	
Diasoni y	•	•	•	•	• .	•	• .	•	, 10	
									\$131	60
World done b	4ls	~ C~-	D						#1 919	55
Work done b	y tu	e sev	er Di	IVISIOI	1 .		•	۰	φ1,515	- 6
STREE	T II	MPRO	OVEN	IENT	rs, v	VARD	S 19	ANI	22.	
Edge Hill st	treet	t, Gay	y Hea	id to	Roun	d Hill	stree	et. R	esurface	ed.
Labor and ma										
					•			Ť	-	
Evergreen s										
Labor .	•	•		•	•		•		\$65	
Teaming	•	•	•	•	•	•		٠		
Gravel	•		•	•	•		٠	•	278	80
	•	•						• .	$\begin{array}{c} 313 \\ 24 \end{array}$	50
Paving .		• .	0	•	•	٠	•	•	24	10
									\$754	22
Wountfort s	tree	t. Be	acon	to A	runde	al stree	et. o	raded.	oravelle	ed.
Mountfort s	stree set,	t, Be brick	acon side	to A	runde laid	el stree , gutte	et, g	raded, aved,	gravelle crosswal	ed, lks
edgestone laid.	set,	brick	side	walks	laid,	, gutte	ers p	raded, aved,	crosswa]	lks
edgestone laid. Labor .	set,	brick.	side	walks	laid,	, gutte	et, g	raded, aved,	crosswal	lks 80
edgestone laid. Labor .	set,	brick.	side	walks	laid,	, gutte	ers p	raded, aved,	\$701 199	80 00
cdgestone laid. Labor . Teaming Gravel .	set,	brick	side	walks	laid	, gutte	ers p	raded, aved,	crosswal	80 00 80
edgestone laid. Labor . Teaming Gravel . Lumber 168-5 ft. edg	set,	brick	side	walks	laid	, gutte	ers p	aved,	\$701 199 2, 430 32 109	80 00 80 83 47
edgestone laid. Labor . Teaming Gravel . Lumber 168-5 ft. edg	set,	brick	side	walks	laid	, gutte	ers p	aved,	\$701 199 2,430 32 109 27	80 00 80 83 47 95
edgestone laid. Labor . Teaming Gravel . Lumber 168-5 ft. edg	set,	brick	side	walks	laid	, gutte	ers p	aved,	\$701 199 2, 430 32 109	80 00 80 83 47 95
edgestone laid. Lahor . Teaming Gravel . Lumber 168 \(\frac{5}{12} \) ft. edg 2 large and 5 88 ft. flaggin Amount paid	set,	brick ne all cor	side	walks	laid.	, gutte	ers p	aved,	\$701 199 2,430 32 109 27	80 00 80 83 47 95
edgestone laid. Lahor . Teaming Gravel . Lumber 168 \(\frac{5}{12} \) ft. edg 2 large and 5 88 ft. flaggin Amount paid	set,	brick ne all cor	side	walks	laid.	, gutte	ers p	aved,	\$701 199 2,430 32 109 27	80 00 80 83 47 95
edgestone laid. Labor . Teaming Gravel . Lumber 168-5 ft. edg	set,	brick ne all cor	side	walks	laid.	, gutte	ers p	aved,	\$701 199 2,430 32 109 27 70	80 00 80 83 47 95 40
edgestone laid. Lahor . Teaming Gravel . Lumber 168 \(\frac{5}{12} \) ft. edg 2 large and 5 88 ft. flaggin Amount paid	set,	brick ne all cor	side	walks	laid.	, gutte	ers p	aved,	\$701 199 2,430 32 109 27 70	80 00 80 83 47 95 40
edgestone laid. Lahor . Teaming Gravel . Lumber 168 \(\frac{5}{12} \) ft. edg 2 large and 5 88 ft. flaggin Amount paid	set,	brick ne all cor	side	walks	laid.	, gutte	ers p	aved,	\$701 199 2,430 32 109 27 70	80 00 80 83 47 95 40
edgestone laid. Labor • Teaming Gravel • Lumber 168 ½ ft. edge 2 large and 5 88 ft. flaggin Amount paid 870 ft. edges 309 sq. yds.	set, gesto smag to J tone brick	ne all cor	eners Gran t 8 ci	ewalks	: laid.	, gutt€	ers p	aved,	\$701 199 2,430 32 109 27 70	80 00 80 83 47 95 40
edgestone laid. Labor . Teaming Gravel . Lumber $168\frac{5}{12}$ ft. edg 2 large and 5 88 ft. flaggin Amount paid 870 ft. edges 309 sq. yds.	set, gesto smag to J tone brick	ne all cor	eners Gran t 8 ci	ewalks	: laid.	, gutt€	ers p	aved,	\$701 199 2,430 32 109 27 70	80 00 80 83 47 95 40
edgestone laid. Labor • Teaming Gravel • Lumber 168 ½ ft. edge 2 large and 5 88 ft. flaggin Amount paid 870 ft. edges 309 sq. yds.	set, gesto smag to J tone brick	ne all cor	eners Gran t 8 ci	ewalks	: laid.	, gutt€	ers p	60 25	\$701 199 2,430 32 109 27 70	80 00 80 83 47 95 40
edgestone laid. Labor . Teaming Gravel . Lumber 168_{12}^{5} ft. edg 2 large and 5 88 ft. flaggin Amount paid 870 ft. edges 309 sq. yds. New edges Labor .	set, gesto smag to J tone brick	ne all cor	eners Gran t 8 ci	ewalks	: laid.	, gutt€	ers p	aved,	\$701 199 2,430 32 109 27 70 146 \$3,719	80 00 80 80 83 47 95 40 85
edgestone laid. Labor . Teaming Gravel . Lumber 168 ½ ft. edg 2 large and 5 88 ft. flaggin Amount paid 870 ft. edges 309 sq. yds. New edges Labor . Gravel .	set, gesto smag to J tone brick	ne all cor	eners Gran t 8 ci	ewalks	: laid.	, gutt€	ers p	60 25	\$701 199 2,430 32 109 27 70 146 \$3,719	80 00 80 80 83 47 95 40 85 10 60 60
edgestone laid. Labor . Teaming Gravel . Lumber 168 ½ ft. edg 2 large and 5 88 ft. flaggin Amount paid 870 ft. edges 309 sq. yds. New edges Labor . Gravel .	set, gesto smag to J tone brick	ne all cor	eners Gran t 8 ci	ewalks	: laid.	, gutt€	ers p	60 25	\$701 199 2,430 32 109 27 70 146 \$3,719	80 00 80 80 83 47 95 40 85 10 60 60
edgestone laid. Labor . Teaming Gravel . Lumber 168 \(\frac{1}{12} \) ft. edg 2 large and 5 88 ft. flaggin Amount paid 870 ft. edges 309 sq. yds. New edges Labor . Gravel . Sand .	set, gesto sma g to J tone brick	ne all cor set, a pav	ners Gran t 8 cd	at & (ts. id, at	co.:	, gutt€	ers p	60 25	\$701 199 2,430 32 109 27 70 146 \$3,719 \$18 693 246 \$958	80 00 80 80 83 47 95 40 85 10 60 60
edgestone laid. Labor . Teaming Gravel . Lumber 168 ½ ft. edg 2 large and 5 88 ft. flaggin Amount paid 870 ft. edges 309 sq. yds. New edges Labor . Gravel .	set, gesto sma g to J tone brick	ne all cor set, a pav	ners Gran t 8 cd	at & (ts. id, at	co.:	, gutt€	ers p	60 25	\$701 199 2,430 32 109 27 70 146 \$3,719	80 00 80 80 83 47 95 40 85 10 60 60

STREET IMPROVEMENTS, WARD 20.

New edgeste	noa (oid on	zolka e	nd o	nttons				
_				_) •			Ø110 00
Labor .	•	۰	•	•	•	•	•	•	\$119 99 331 50
Gravel .	•	•	•	•		•	•	•	- 187 20
Sand .	•	•	•		•	•	•	•	187 20
									\$638 69
									ψι:00 00
Norfolk av	enne	G	raded.						
Labor and r			1 ttace						\$187 70
Labor and I	nateri	aı	•	•	•	•	•	•	φ101 10
Work done	hy th	e Sei	wer D	ivisio	n .				\$376 22
WOLK GOLD	by th	.00	., (1 1)	1 1 1010		•	•	•	\$0.0 22
S	TREE	ET I	MPR	OVE	MEN'	rs, v	WAR	D 21	1.
Catawba st	reet.	Ede	gestor	ies se	t. gut	ters i	aved	, bric	ek sidewalks
laid.		2200	50000		7, 84	Joero I	,	, ~	
Labor .			•						\$466 90
Teaming			•						232 50
Sand .	0 .		•						52 20
Gravel .									45 90
Amount p	aid to	Α.			· Co.	•			
642 feet edg	eston	e set.	. at 8	ets.		•	\$51	36	
220 sq. yds.	roun	d-sto	ne par	ving.	at 25	ets.	55	00	
220 04. 3						0.00			
523 sq. vds.	brick	side	walks	laid.	at 18	cts.	94	14	
523 sq. yds.	brick	side	walks	laid,	at 18	cts.	94	14	200 50
523 sq. yds.	brick	side	walks	laid,	at 18	cts.	94	14	200 50
523 sq. yds.	brick	side	walks	laid,	at 18	ets.	94	14	200 50 \$998 00
523 sq. yds.	brick	side	walks	laid,	at 18	ets.	94	14	
2 0	brick	side	walks	laid,	at 18	3 cts.	94	14	\$998 00
Centre stre	brick	side	walks	laid,	at 18	cts.	94	14 Resu	\$998 00 rfaced.
Centre stre	brick	liot s	walks square	to P	at 18	on stre	94 	Resu	\$998 00 rfaced. \$381 90
Centre stre	brick	side	walks	to P	at 18	on stre	94 eet.	Resu	\$998 00 rfaced. \$381 90 272 50
Centre stre	brick	liot s	walks square	to P	at 18	on stre	94 	Resu	\$998 00 rfaced. \$381 90
Centre stre	brick	side	walks square	to P	at 18	on stre	94 eet.	Resu	\$998 00 rfaced. \$381 90 272 50 185 30
Centre stre	brick	side	walks square	to P	at 18	on stre	94 eet.	Resu	\$998 00 rfaced. \$381 90 272 50 185 30
Centre stre Labor . Teaming Gravel .	eet, E	side	walks	to P	at 18	on stre	94 eet.	Resu	\$998 00 rfaced. \$381 90 272 50 185 30
Centre stre Labor . Teaming Gravel .	eet, E	side	walks square	to P	at 18	on stre	94 eet.	Resu	\$998 00 rfaced. \$381 90 272 50 185 30 \$839 70
Centre stre Labor . Teaming Gravel .	eet, E	side	walks	to P	at 18	on stre	94 eet.	Resu	\$998 00 rfaced. \$381 90 272 50 185 30
Centre street Labor . Teaming Gravel . Holland st	eet, E	side	walks square aded.	to P	yncho	on stre	94 eet.	Resu	\$998 00 rfaced. \$381 90 272 50 185 30 \$839 70
Centre stre Labor Teaming Gravel . Holland st Filling New edge	eet, E	side	walks square aded.	to P	yncho	on stre	94 eet.	Resu	\$998 00 rfaced. \$381 90 272 50 185 30 \$839 70 \$434 25
Centre stre Labor . Teaming Gravel . Holland st Filling . New edge Labor .	eet, E	side	equare aded.	to P	yncho	on stre	94 eet.	Resu	\$998 00 rfaced. \$381 90 272 50 185 30 \$839 70 \$434 25 \$497 09
Centre stre Labor . Teaming Gravel . Holland st Filling . New edge Labor . Teaming	eet, E	Gr side	equare aded.	to P	yncho	on stre	94 eet.	Resu	\$998 00 rfaced. \$381 90 272 50 185 30 \$839 70 \$434 25 \$497 09 685 50
Centre stre Labor Teaming Gravel Holland st Filling New edge Labor Teaming Gravel	eet, E	side	equare aded.	to P	yncho	on stre	94 eet.	Resu	\$998 00 rfaced. \$381 90 272 50 185 30 \$839 70 \$434 25 \$497 09 685 50 1,207 00
Centre street Labor . Teaming Gravel . Holland st Filling . New edge Labor . Teaming Gravel . Sand .	eet, E	Gr side	aded.	to P.	yncho	on stre	94 eet.	Resu	\$998 00 rfaced. \$381 90 272 50 185 30
Centre stre Labor Teaming Gravel Holland st Filling New edge Labor Teaming Gravel	eet, E	Gr side	equare aded.	to P	yncho	on stre	94 eet.	Resu	\$998 00 rfaced. \$381 90 272 50 185 30 \$839 70 \$434 25 \$497 09 685 50 1,207 00
Centre street Labor . Teaming Gravel . Holland st Filling . New edge Labor . Teaming Gravel . Sand .	eet, E	Gr side	aded.	to P.	yncho	on stre	94 eet.	Resu	\$998 00 rfaced. \$381 90 272 50 185 30

Thwing s	treet.	Edge	stone	set,	bric	k si	dewalk	s lai	d, gutt	ers
Labor .									\$112	
Teaming	•				•	•	•		304	
Gravel . 566.3 feet e		•	•			•	•	•	387	
Paving :	eugesto	ue	•				•	•	$\begin{array}{r} 368 \\ 125 \end{array}$	
raving .	•	•	•	•	•	•	•	•		
									\$1,297	83
Amount	paid or	it of	Stree	t Im	prove	:-				
Amount ments, War Amount	d 21		•	•			\$542 1	3		
Amount	paid ou	t of F	Paving	g Divi	sion	•	755 7	.0	#1 90F	0.9
									\$1,297	60
STRE	ET IM	PRO	VEM:	ENTS	s, w	ARI	OS 23	AN	D 25.	
Brookfield	stree	t, Wa	ard 28	3. G:	raded	, ma	cadam	ized.		
Labor .		•							\$468	
Teaming		•		•	•				237	
Stone .	•			•	•	•	•	•	$\frac{207}{157}$	
Gravel . Lumber .	•		•	•		•				40
Advertising	· ·									25
`	,									
									\$1,106	88
Cambridge						te si	dewalk	s.		
Amount									07.45	00
745 sq. yds	. coner	ete w	aiks i	aid	•	•	•	•	\$745	
Catharine	street	. Wai	d 23.	(W	ork u	anfin	ished.)		
Labor .							4		\$773	50
									-	
Concrete s										
Amount	paid to	Simp	son E	Bros.:			ФЛАЛ 1	10		
Amount 444.1 sq. y 111.9 sq. y	us. new ds. resu	rface	rete v d con	waiks crete	walks		72	73		
riiio sq. y	(10)	11400	CI COL	01000	VY COLIEC	,			\$516	83
Elko stre	at Car	nhvid	ra ta	Snarl	zowlz	etra	at G	radad	maga	da
mized, si	dewalk	s grav	velled	• Span	X W IX	SUIC	ev. O	rauct	i, maca	cia-
Tabaaa							•		\$276	60
Teaming		•				•	•		83	
Gravel . Advertising		•		•	•	٠	•		505	40
Advertising	5 .	•	•	•	•	٠	٠	•	9	- 00
									\$875	30
Farringto	n avan	no V	Vard	25	Conc	rata	sidowo	lka		
Labor .	H WACH	110, 1	· ulu		Onei		siuc wa.	41210/0	\$21	00
83.9 sq. yd	ls. conc	rete s	idews	ilks la	id		,			90
1. 3										
									\$104	90

Highgate Graded, sidewalks	maca	damiz						
Labor .				٠	٠		\$903	51
Teaming								

sidewalks	mu.									
Labor .									\$903	51
Teaming			•						350	00
Gravel .									651	35
Loam .		•							278	
Stone .						·	Ţ,		54	-
Sand .	•	•	•	•	•	•	•	•	5	
4.968 large g	venit	o blo	olza.	•	•	•	•	٠	367	
4 small corne	rami	e pro	CAS	•	•	•	•	•	13	
					•	•	•	•	10	40
Amount pa										
453.4 sq. yds	s. nev	v con	crete	e sidew	alks	laid		•	453	40
									\$3,077	67
Amount paid	outo	f Str	eet I	mprove	emen	ts,				
Wards 23							2,721	46		
Amount paid	outo	f Str	eet I	mprove	emen	ts.	,			
Ward 25							356	21		
11 22 0, 20	•	·	Ť	·		_			\$3,077	67
									50,011	
				-						
Landseer st	reet,	Wai	d 23	. Gra	ided,	maca	adami	zed.		
Labor .	0		٠	•					\$604	90
Teaming				•					298	00
									154	44
Stone .									274	
Lumber.									56	
2317223002	•	·	·		Ť	·	·			
									\$1,387	83
									#1,00	
					_					
Linden stree	et, W	ard !	25.	Grade	d, er	'osswa	alks la	iid.		
Labor .									\$499	73
Labor . Teaming									129	50
Gravel .									189	35
190 ft. of flag	ging								134	90
4										
									\$953	48
Now admostor		Jama	11-0	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	44000					
New edgestor				_	iters					
Labor .						•		٠	\$32	
Teaming				•		•			181	
Gravel.									335	
		•				•			154	80
Paving .									348	36
Paid to W.		Iurtf	eldt							
5,253 feet arti									315	18
-, 1000 are	-110101	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- 220	- CIT CLAIR						

\$1,368 13

Ophir sta	reet,	Washi	ngtor wider	stree	et to	Brook amized	line I, sid	avent lewall	ne (work un-
Labor .				•	•1				\$112 00
Teaming							•		103 .0
Filling .			• ′		**				381 00
Stone .						٠	٠	•	381 50
									\$978 00
Pond stre						itters.			
1,448.7 sq									\$2,173 05
1,110., pd	· yas.	COHOIC	ic sc	ICCLS	•	•	•	•	\$2,110 OO
Roberts s	street	. War	d 23.	Gra	ded.				
Labor .									\$47 50
Teaming									51 00
Gravel .			·				·		73 44
Stone .				• 1					29 50
									\$201 44
Washingt	on et	root	Ward	1 95	Oak s	011910	to	the N	fewton line.
Graded,							to	(110 1	cwoon nnc.
									# 00 = 0 F
	•		•	•	•	• 1		•	\$697 65
Teaming Gravel .	•	•	• 1	•	•	•		•	525 50
						•	٠	•	1,581 30
Amount 1,355 sq.	yds.	concret	e gu	tters 1	laid,	at .	000	w 0	
\$1.50 Labor, exc	• . •			•,	•	. \$2	,032	50	
Labor, exc	avatır	ng, gra	ding,	etc.	•	•	373	62	
								_	2,406 12
									\$5,210 57
Work don	e by t	he Bri	dge I	ivisio	n			۰	\$759 24
Work don	e by t	he Sew	er D	ivision	ı	•		•	\$1,514 77
S	STRE	ET IN	IPR(OVEM	ENT	s. w	ARI	D 24.	
				- 1 44414		~, "		an J.	
Brent stre									
Labor . Teaming Tile . 500 paving-	al				٠		•		\$10 00
Teaming	•	•	•	•	•		•	•	10 50
Tile .		•	•	•	•	•	•	•	16 57
500 paving-	brick	•	•		• ′	•	•	0	6 00
									\$43 07
,									Q40 01

Clarkson paved.	street.	Е	dgesto	one s	set, bi	ick	sidewa	alks l	aid, gut	ters
Labor .			•						\$23	00
Teaming									92	
Gravel .									42	90
Sand .									37	80
Paving .			Ž						105	96
201125	·	Ĭ			Ť			·		
									\$302	
0	e set an	d re	set, si	er av dewa	venue dks la	to raid an	ailroad id rela	l. Ma id, gu	acadamiz tters pav	ed,
Labor .							•		\$166	
Teaming							•		285	00
Gravel .									509	85
Gravel . Filling .				0	•				341	00
Stone .									1.076	75
Stone 528 feet str $22\frac{4}{12}$ feet c	raight e	iges	tone		•		•		343	20
$22\frac{4}{12}$ feet c	ircular e	edge	stone	•	•		•		29	03
2 small cor	ners	•	٠	٠	٠	٠	•	٠	6	70
Duncan st	reet.	Filli	nø.						\$2,758	
			_						\$38	อร
Labor .	•	•	•	•	•	•	•	•	36	
Teaming Gravel .	•	•	•	•	•	•	•	•	333	
Filling .	•	•	•	• .			•		232	
rining .	•	•	•	•	•	•	•	•		
Amount p	aid out	of	Stree	et I	mprov	'e-	*		\$640	
ments, V	Vard 24		٠.	To 1 's		•	\$232	50		
Amount pa	id out o	f P	aving	Divi	sion	•	407	89	***	~ =
									\$640	
Glenway s	street.	Gr	aded,	mac	adami	zed.				
Labor .			•	•	•	٠	•	•	\$809	
Teaming		•		•	•	•	•	•	437	00
Stone .	•	•		•	•	•	•	•	2,977	00
Gravel.	•	•	•	•	•	•	•	•	153	45
Amount p	aid out	of	Stron	.4 T.	m 10 11 0 T 1				\$4,376	
Amount pa	Tand 24	01	Stree	: L L	mprov	e- @	4 107	50		
ments, V Amount pa	aru 24	e Da	· rrin m]	· Dimi	·	• Ф	268	05		
Amount pa	ia out o	л га	iving 1	DIVIS	SIOII	•	208		\$4,376	45
Greenheys	street	. (Work	unfi	nished	l).				25
Labor .	•	•	•		•	•	•	•	\$74	
Teaming	•	•	•	•	•	•	•	•	15	00
Carrie	d forwar	rd,							\$89	65

ST	REET	DEI	PART	MENT	— F	PAVIN	e Di	VISIO	ON.	213
Brough	t form	ard.							\$89	65
Stone .	, , 01 00	., .,								00
Stone . Gravel .	•				•			·		65
Graver .	•	•	•	•	·	•	•	•		
									\$205	30
Amount pa	id out	t of	Stre	et I	npro	ve-	\$18 186		,	
ments, W	ard 24				•		\$18	40		
Amount paid	dout	of Pa	ving	Divis	ion		186	90		
•									\$205	30
King street concrete s							avenue	. M	acadamiz	ed,
Labor .									\$509	55
Teaming						٠		•	15	00
Gravel .		•	٠	•					532	
Stone .								•	2,688	
Rolling			•				•		210	
214 ft. flagg								•	151	92
Amount paid 436.3 sq. yd at \$1.00 128.5 sq. yd	s. con	crete	side	walks	(nev	v), • ur-	\$436	30		
faced), at	65 ct	S.					83	52		
									519	82
A	J4		C4	of To					\$4,627	99
Amount pai	u out	01	Stre	eet 1t	пргоч	/ e-	\$545	55		
ments, Wa	l out o	of Po	vino	Divis	ion	•	4 082	44		
Amount pare	Cut	,, 10	tving	DIVIS	1011	•	T ,002		\$4,627	99
									Ψ1,021	
Lawrence a	venu	e. G	rano	lithic	sidev	walks	laid.			
Labor .								٠	\$694	60
Teaming							•		. 9	
Stone .									558	00
Gravel .									94	05
									\$1,355	
Lyndhurst stone gutte	street ers an	d side	ork u ewalk	ncom s laid	pleted l.	d). I	Macad	amiz		
Labor .									\$332	35
Teaming							•		51	
Gravel .		. /	•						90	
Stone .				•				•	1,069	
Tile drain								•	108	38
Amount pa 19,644.3 sq.						at				
6 cts.	• ,	•	•				1,178	65		
Carried .	foru a	rd,				\$	1,178	65	\$1,651	73

Brougl	ht for	ward,					\$1,178	65	\$1,651	73
7,407 sq. f	t. ar	tificia	l sto	ne gu	tters,	at				
20 ets.	•	•		٠	•	•			0.000	0=
									2,660	
									\$4,311	78
A a	.:	46	C14	1						
Amount pa	uu o Iard (ut OI Da	Str	eet 1	mpro	ve-	285	48		
ments, W Amount pai	id out	of P	Pavino	r Divi	sion	•	4.026	30		
Lancas par				,					\$4,311	78
W0.11	4	0	1*	.1 *		11 1				
Mayfield st	treet	. G1	ranoli	thic s	idewa	iks i	a1a.		# 4.0	00
Labor .	٠		•	•	٠	۰	•	•	\$46 37	
Teaming	•	•	•	•				•	363	
Gravel .		•		•			•	٠	25	
Sand .	•	•	•	•	•	•	•	•	20	20
									\$471	70
37 . 3 .			77	,					-	
New edgest	one,	sidew	alks a	and g	utters	:				
Labor .		•			. •		4		\$639	
Teaming							•		10	
Sand .				•	•		•	•	39	
Gravel .		•	•	•	•	•	•	•	92	
									\$781	
									\$191	23
Sagamore	stree	t. G	Franc	lithic	sidew	alks	laid.			
Labor .									\$25	30
Teaming							۰		16	
Gravel .					•				108	90
									\$150	
Spencer str	reet.	Fill	ing.							
Teaming									\$97	50
9										
Virginia st	reet	Bri	olz sid	lowall	za loid	7				
Labor .		1011			KO ILLI				\$40	95
Teaming		•	•	•	•	•	•	•	18	
Sand.		•	•	•			•	•	25	
	·	·	Ť	•	•	•	•	·		
									\$83	
Willis stree	et.	Grade	od m	ne de	mizad					
Labor .		Jiaut	A, III	acaua	MIZEU				d) 4 1 1	15
Teaming	•	•	•	•	•	•	•	٠	\$411	
Stone .	•	•	•	•	•	•	•	•	209	
Rolling .					•	•		•	1,601 170	
					•	•	•	•	170	-
									\$2,391	90
										_

II OZ II GORG	by th	ne Br	idge D	ivisi	on	٠			\$792 82
Work done	by th	ie Se	wer Di	ivisio	on .			٠	\$7,908 87
·	TREI	ET I	MPR	OVE	MEN'	ΓS,	WAR	D i	25.
Brighton a	venu	e.	Concre	ete si	idewal	lks la	id.		
$\frac{1}{2}$ cost of co							•		\$61 80
Talbot ave		Wasl	nington	n stre	eet to	Doro	ehester	av€	enue. (Work
Labor .									\$2,479 71
Teaming									1,329 50
Stone .									884 75
Gravel .									1,495 05
Lumber.			•						16 16
Tools, etc.									235 26
Advertising 468.3 ft. cir		u	•						94 80
468.3 ft. cir	cular	edge	stone						608 77
$2,264\frac{3}{12}$ ft. 1,000 paving	straig	ht ed	gestor	е		•	•	٠	1,471 77
1,000 paving	g-bric	k.							11 50
1,029 sq. y	us. or	a pio	CKS ta	Ken	Trom	rou	nary a		
Division s 34,221 smal	treets		. 1	•	•	•	•	٠	731 60
								۰	1,197 74
Amount p									
6,270 cu. yd	s. exc	avat	ion, at	80	cts.	. \$	5,016	00	
Tools, etc.	•		•	•	•			00	
						ф.	E 190	00	
T one 1111 de		hon	Dorring	~		4	5,136	00	
Less 111½ da Division n									
Less 4 days					P050 (07			
\$3.00	s, sing		0.00		\$250 8	87			
Ф0.00			am, a						
Tools and h	· mhon			t •	12 (00			
Tools and lu	ımber		eam, a	t •	12 (251 4	00 42	514	99	
Tools and lu	imber			t •	12 (00 42	514		4 621 - 71
	ımber	•	•	t • •	12 (251 4	00 42	514		4,621 71
Amount p	umber aid to	Will	liam M	t · ·	12 (251 4	00 42		_	4,621 71
Amount p	umber aid to	Will	liam M	t · ·	12 (251 4	00 42	-	27	4,621 71
Amount p 1,615.9 ft. e 250.4 ft. edg	aid to dgestor	Willone s	liam Met, at	t IcEle 8 cts 8 cts	12 (251 4 eney:	00	\$129 20	27 03	4,621 71
Amount p	aid to dgestor	Willone s	liam Met, at	t IcEle 8 cts 8 cts	12 (251 4 eney:	00	\$129 20	27 03	4,621 71 321 05
Amount p 1,615.9 ft. e 250.4 ft. edg 687 sq. yds.	aid to dgesto geston block	Willone s	liam M et, at et, at ing lai	t IcEle 8 ets 8 ets d, at	12 (251 4 eney:	00	\$129 20 171	27 03 75	321 05
Amount p 1,615.9 ft. e 250.4 ft. edg	aid to dgesto geston block	Willone s	liam M et, at et, at ing lai	t IcEle 8 ets 8 ets d, at	12 (251 4 eney:	00	\$129 20	27 03 75	
Amount p 1,615.9 ft. e 250.4 ft. edg 687 sq. yds.	aid to dgesto geston block	Willone s	liam M et, at et, at ing lai	t IcEle 8 ets 8 ets d, at	12 (251 4 eney:	00	\$129 20 171	27 03 75	321 05
Amount p 1,615.9 ft. e 250.4 ft. edg 687 sq. yds. Work done b	aid to dgesto geston block	Willone se rese pavi	liam Met, at et, at ing lai	t IcEle 8 cts 8 cts d, at	12 (251 4) eney:	00 42 	\$129 20 171	27 03 75	321 05 3,002 04
Amount p 1,615.9 ft. e 250.4 ft. edg 687 sq. yds. Work done b	aid to dgesto geston block	Willone se rese pavi	liam Met, at et, at ing lai	t IcEle 8 cts 8 cts d, at	12 (251 4) eney:	00 42 	\$129 20 171	27 03 75	321 05 3,002 04 \$18,501 41
Amount p 1,615.9 ft. e 250.4 ft. edg 687 sq. yds. Work done b Thetford st Labor .	aid to dgeste geston block by the reet.	Willone se rese pavi	liam Met, at et, at ing laid	t IcEle 8 cts 8 cts d, at ision	12 (251 4) eney: 3. 5.25 et	00 42 	\$129 20 171	27 03 75	321 05 3,002 04 \$18,501 41 \$1,422 55
Amount p 1,615.9 ft. e 250.4 ft. edg 687 sq. yds. Work done b Thetford st Labor Teaming	aid to dgesto geston block	Willone se rese pavi	et, at et, at ing laider Divi	t IcEle 8 cts 8 cts d, at	12 (251 4) eney:	00 42 	\$129 20 171	27 03 75	\$1,422 55 238 00
Amount p 1,615.9 ft. e 250.4 ft. edg 687 sq. yds. Work done b Thetford st Labor Teaming Gravel	aid to dgeste geston block by the reet.	Willone se rest pavi	iam Met, at et, at et, at ing laider Divi	t IcEle 8 cts 8 cts d, at ision	12 (251 4) eney: 3. 5.25 et	00 42 s.	\$129 20 171	27 03 75	\$1,422 55 238 00 843 15
Amount p 1,615.9 ft. e 250.4 ft. edg 687 sq. yds. Work done b Thetford st Labor Teaming	aid to dgeste geston block by the reet.	Willone se rese pavi	liam Met, at et, at ing laid	t IcEle 8 cts 8 cts d, at ision	12 (251 4) eney: 3. 5.25 et	00 42 s.	\$129 20 171	27 03 75	\$1,422 55 238 00

Brought forward,					\$5,606	54
Rolling					220	()()
Advertising					31	50
Work done by the Sewer Divis	ion .				9	09
Work Gode by the sever briss	, ion	•	•	•		
					\$5,867	12
A 4 . C		dh -	2 000	00	ФЭ,001	10
Amount of special appropriation	on .	• 🏚	5,000	00		
Amount paid out of Street Impi	roveme	nts,				
Ward 24			2,867	13		
		-			\$5,867	13
Utica street, Harvard to Kr						
blocks, taken from Swan, A	lbany,	and D	over s	treet	s, edgeste	one
reset, brick sidewalks relaid,	cross	walks l	aid.			
Labor					\$1,327	05
		•	•	•	760	
0 1		•	•	•	208	
Gravel	•	•	•	•	200	00
Masonry 138 ft. edgestone 1 large and 1 small corner		•	•		80	00
138 ft. edgestone			•	۰	89	
1 large and 1 small corner .					8	
145 ft. flagging					102	95
1,554.3 sq. yds. blocks, taken	from	Swan,	Alba	ny,		
and Dover streets					2,331	45
					\$4,909	46
A						
Amount of special appropriation	on .	•	•	•	\$4,909	
Utica street, Kneeland to l	Beach:	street.	Rep	aved	, edgesto	one
reset, brick sidewalks relaid						
Labor	,				\$388	96
	• •	•	•	•	163	
Teaming	• •	•	•	,		
Gravel	• •	•	•	۰	60	
Masonry	•	•	•		98	
4.300 paving-brick.					55	
38.1 feet flagging			•		27	
					\$794	28
Amount of special appropriation	n n				\$794	28
Amount of special appropriation	on .	•	•	•	\$794	
		•	٠	•	\$794	
Van Renssalaer place. Pa	aved.	٠	٠	٠		
Van Renssalaer place. Pa	aved.	٠			-	
Van Renssalaer place. Pa	aved.	•				
Van Renssalaer place. Pa	aved.	•			-	
Van Renssalaer place. Pa Amount paid to Payson & C Paving laid as per agreement	aved.	•	۰	٠	\$450	00
Van Renssalaer place. Pa Amount paid to Payson & O Paving laid as per agreement Washington street, Brighton	aved. Co.:	•	۰	٠	\$450	00
Van Renssalaer place. Pa Amount paid to Payson & C Paving laid as per agreement Washington street, Brighto Widened. (Work uncomple	aved. Co.:	•	۰	٠	\$450	00 eet.
Van Renssalaer place. Pa Amount paid to Payson & C Paving laid as per agreement Washington street, Brighto Widened. (Work uncompleted of the complete of the	aved. Co.:	•	۰	٠	\$450 nship stre \$412	00 eet.
Van Renssalaer place. Pa Amount paid to Payson & C Paving laid as per agreement Washington street, Brighto Widened. (Work uncomplet Labor	aved. Co.:	•	۰	٠	\$450 nship stre \$412 956	00 eet. 40
Van Renssalaer place. Pa Amount paid to Payson & C Paving laid as per agreement Washington street, Brighto Widened. (Work uncomplet Labor	aved. Co.:	•	۰	٠	\$450 nship stre \$412 956 543	00 eet. 40 00 55
Van Renssalaer place. Pa Amount paid to Payson & C Paving laid as per agreement Washington street, Brighto Widened. (Work uncomplet Labor	aved. Co.:	•	۰	٠	\$450 nship stre \$412 956	00 eet. 40 00 55
Van Renssalaer place. Pa Amount paid to Payson & C Paving laid as per agreement Washington street, Brighto Widened. (Work uncomplet Labor	aved. Co.:	•	۰	٠	\$450 nship stre \$412 956 543 1,314	00 eet. 40 00 55 72
Van Renssalaer place. Pa Amount paid to Payson & C Paving laid as per agreement Washington street, Brighto Widened. (Work uncomplet Labor	aved. Co.:	•	۰	٠	\$450 nship stre \$412 956 543	00 eet. 40 00 55 72

\$406,192 24

Brought forward,					\$3.226	67
Drain tile					11	90
Lumber					88	89
Amount paid to Michael Kierns						
Cutting away bank and building s		wall.				
8 days foreman, at \$3.00 .			\$24	00		
24 days labor, at \$2.00			48	00		
19 days mason, at \$3.20 .			60	80		
18 days double team, at \$5.00				00		
10 adj 5 310 110 10 11 11 11 11 11 11 11 11 11 11					222	80
Work done by the Sewer Division	١.				3,298	62
7, 0112 4020 05 020 00.02 21710102						
					\$6,848	88
WW73 040 4 4 77 4 7						-
Whiting street. Excavated.						
Teaming and labor					\$121	00
Amount paid to John J. Nawn	:					
882 cu. yds. rock excavation, at \$	2.00,	\$1	,764	00		
250 cu. yds. earth excavation, at	\$1.00.	,	250	00		
·					2,014	0.0
					\$2,135	00
Amount of special appropriation					\$2,135	00
Zimount of special appropriation	•	•	•	•	Ψ= 9100	

SUMMARY OF EXPENDITURES UNDER SPECIAL APPROPRIATIONS.

Blakeville street	00
Blakeville street 2,342 (01
Blakeville street 2,342 (
	0.77
	01
	50
Bunker Hill street	15
Bushnell street 3,363	33
Charter street 9 2	20
Commonwealth avenue	99
Congress and L streets	00
Cranston street	
Dartmouth street 5.839	65
Day street	02
Fay street	82
Lewis street	29
	00
Millet street	88
Montview street	28
Mount Vernon street 1.325	00
Newport street	12
Oak street 3.313 &	38

Carried forward,

70 74 4	7							#100 ton	~ .
Brought forwar								\$406,192	
Park street .	•	•	•	•	•	•	٠	1,138	
Preston street	0	•		•	•	•	•	5,390	
Ruth street .	•	•	•	•	•	•	٠	5,586	
Second street	•	•	٠.			•	•	7,065	69
Street Improvement	ts, A	lderm	anic	Distri	ct No	. 1:			
Bennington stree Chelsea street	t	•	•	٠		•	٠	4,166	
Chelsea street	•	•		•	•	•	٠	9,050	
Moore street New edgestone, s		•	٠ .	•		•	٠	904	
New edgestone, s	sidew	alks,	and a	gutter	3	•	٠	549	
Sewers . Street Improvemen	•	•				•	٠	2,370	86
Street Improvement	ts, A	lderm	anic	Distri	ct No	. 2:			
Alford street				•	•		۰	1,440	
Austin street		•		•		•	٠	5,064	
Chapman street		•		•	•	•	۰	4,557	
Charles street	•		•	•			٠	1,342	
Main street cross	ing	•		•		•	۰	29	
Main street cross Medford street Phipps street							٠	585	
					•		٠	1,227	
Rutherford avenu	le				•			6,403	09
Thompson street								267	
Sewers			9		•	•	٠	1,173	50
Street Improvement									
Chambers street,	Ashl	and to	o Bri	ghton	stree	t	٠	6,521	
Sewers .			•					77	18
Street Improvement	s, Al	lderm	anic	Distri	ct No	. 4:			
Court square .								2,992	
Harrison avenue.	Esse	ex to	Beac	h stre	et			6,496	80
Mason street	•							1,535	04
Mason street Pemberton square Washington stree	9							8,934	
Washington stree	t, El	iot to	Kne	eland	street	5		10,841	80
Sewers .								479	41
Street Improvement	s, Al	derm	anie	Distri	ct No.	. 5:			
Harcourt street								2,159	38
Sewers								92	34
Street Improvement	s, Al	lderm	anic	Distri	ct No.	. 6:			
Ash street				0 /		•	۰	239	23
Essex street, Cha	uncy	to So	outh	street				12,136	71
Essex and Lincol	n stre	eets						1,455	
Foundry street .		•						2,760	79
Tufts street .		•						344	
Bridges								6,586	70
Foundry street Tufts street Bridges Street Improvement	s, Al	derma	anic	Distri	et No.	. 7:			
Boston street Sewers		•					۰	9,798	34
Sewers		•	۰			0		215	52
Street Improvement	s, Al	derma	anic	Distri	et No.	. 8:			
Albany street .								3,810	76
Massachusetts av	enue							10,799	40
Sewers								581	91
Carried forwar	d,							\$553,363	91

Brought forwar	d,							\$553,363	91
Street Improvement	s, Al	dern	nanie	Distr	ict I	No. 9:			
Brookline avenue								1,902	60
Heath street								16,365	65
Brookline avenue Heath street Sewall street								1,562	
Sewers Street Improvement								4,225	75
Street Improvement	s, Al	dern	nanic	Distr	ict 1	No. 11	:		
Henshaw street .			٠					. 48	30
Lagrange street.								5,364	97
Sycamore street . Washington stree								46	
Washington stree	t (Ro	sline	dale)					6,638	24
Wilson square .							٠	1,179	
Wilson square . Bridges								344	
Sewers								2,013	20
Street Improvements	s. Al	derm	anic	Distr	iet N	No. 12	:	-,	
Park street	-,							3,693	49
Park street . Sewers				,	Ĭ.			217	
Street Improvement	e W	ords.	1 970	12.	•	•	•	211	10
New edgestone, si	dowe	alke	and o	ruttoi	°C			2,308	44
Saware	icie w a	umog	and g	_			۰	2,791	
Sewers Street Improvement	a W	· ord s	·	•	•	•	•	2,101	04
Sprague street	0, 11	aru	, .					2,531	83
Sprague street .		•	•	•	•	•	•	16	
Sewers Street Improvements	. W	ond 5	•	•	•	•	•	. 10	10
Charles-river and	Man	aru ə); midaa	~				895	60
Charles-river and	war.	ren c	riage	S	•	•	•		
Sewers	~ 777			•	•	•	•	308	19
Street Improvements	S. W	ara c) :					.004	20
Batterymarch stre Charter street .	et .	•	•	•	•	•	•	•924	
Charter street .		•	•	•	•	•	٠		
Sewers	***		, •	•	٠			681	20
Street Improvements Bowker street .	s, W	ard 1						F 104	9.0
Bowker street .	•		•	•	•	•	•	5,184	
Causeway street . North Margin stre Salt lane			•	•	•	•	•	19,460	
North Margin stre	et .		•	•	•	•	٠	101	
Salt lane	•	,	•	•	•		•	420	
Sewers			•	•	•	•	٠	75	88
Street Improvements	3, W	ard 8	:						
Barton court .			•	•			٠	713	
Barton court . Cambridge street Chambers street, (•	•	•	•	٠	8,655	
Chambers street, (Greei	i to l	Popla	r stre	et		٠	3,002	
Sewers						•		867	73
Street Improvements		ards	7 and	l 8:					
Sewers							٠	151	85
Street Improvements	, Wa	ard 1	0:						
Sewers Street Improvements							٠	785	60
Street Improvements	, Wa	rds !	9 and	10:					
Charles street .								6,010	
Derne street .								1,500	38
Sewers								525	64
Street Improvements	, Wa	rd 1	2:						
Sewers								124	26
Carried forward	9							\$657,764	12
	,								

Brought forward				\$657,761 1	2
Street Improvements, Ward 14:				\$00 .1. 0.1	
East Eighth street				10,668 0	7
East Eighth street New edgestone, sidewalks, and gutter	's	Ĭ		249 3	
Story street		Ĭ			
Story street	•	•	·	291 5	
Sawara	•	•	•	25 8	
Street Improvements, Ward 15:	•	•	•	20 0	U
New edgestone, sidewalks, and gutter	າຕ			254 1	5
Valo street	5	•	•	711 1	
Coword	•	•	٠	18 6	
Vale street		•	•	10 0	O
Dortmouth street	•			6,145 3	0
Dartmouth street	•	•	•	624 4	0
Ivanhoe street	•	•	۰		
whikes street	•		٠	131 6	
Sewers	•	•	•	1,313 7	4
Sewers Street Improvements, Wards 19 and 22	:			=100	
Edge Hill street		•	٠	710 8	
Evergreen street		•	•	754 2	
Mountfort street		•	٠	3,719 1	
Mountfort street	'S	•	•	958 6	
Bridges				2,541 7	
Sewers				1,202 0	3
Street Improvements, Ward 20:					
New edgestone, sidewalks, and gutter	rs.	•		638 6	9
Norfolk avenue				187 7	0
Sewers			۰	376 2	2
Sewers Street 1mprovements, Ward 21:					
Catawba street				998 0	0)
Centre street				839 7	0
Holland street				434 2	5
Howland street				203 8	80
Holland street	s			3,7257	3
Thwing street				1,297 8	
Thwing street Street Improvements, Wards 23 and 25	:			· ·	
Brookfield street		:		1,106 8	8
Cambridge street				745 0	
Catharine street				773 5	
Concrete sidewalks		·	Ĭ	516 8	
Catharine street	•		•	875 3	
Farrington avenue	•	•	•	104 9	
Highwate street	•	•	•	3,077 6	
Landsoar etroot	•	•	•	1,387 8	
Highgate street	•	•	•	$953 \ 4$	
New adaptone sidewalks and cuttor	• •	•	•	1,368 1	
Ophin street	5	•	•	0.78 0	
Ophir street	•	•	•	978 0	
Roberts street	•	•	•	$2,173 0 \\ 201 4$	4
	•	•	•		
Washington street (Brighton) .	•	•	•	5,210 5	
Bridges	•	•	•	759 2	
Sewers	•	•	•	1,514 7	1
Carried forward,				\$718,601 7	1

Brought forward,						\$718,601 71
Street Improvements,	Ward	24:				,
Brent street .						43 07
Brent street . Clarkson street .				•		302 16
Crescent avenue.						2,758 15
Duncan street .						640 35
Duncan street . Glenway street . Greenheys street . King street . Lawrence avenue						4,376 45
Greenheys street.						205 30
King street.				• *		4,627 99
Lawrence avenue						1,355 65
Lyndhurst street	_					4,311 78
Mayfield street						471 70
Mayfield street . New edgestone, side	walks	s. and	ontte	ers .		781 25
Sagamore street . Spencer street .		,	Same			150 70
Spencer street		•		•		97 50
Virginia street .	•	•	•		•	83 45
Willie street	•	•	•	0	• •	2,391 90
Reidana	•	•	٠	•		792 82
Sowang	•	•	•	•	•	7,908 87
Willis street Bridges Sewers Street Improvements,	Word	95.	•	•	•	1,500 01
Drighten evenue	waru	20:				61 80
Brighton avenue . Talbot avenue .	•	•		•		
Thetford street .	•	•		•		18,501 41
		[7] 1 .		6	•	5,867 13
Utica street, Harvar	a to 1	Kneeia	ina si	treet		4,909 46
Utica street, Kneela	nd to	Beaci	1 stre	et		794 28
Van Renssalaer plac	e .	. •		•		450 00
Washington street,	Brigh	ton		•		6,848 88
Whiting street .		· .		•		2,135 00
Van Renssalaer place Washington street, I Whiting street Laying Out and Const	ructic	on of I	dighw	vays:		0.000 #0
Sewer construction				•		2,883 58
Arundel street .		•	•	•		3,048 26
Batavia street . Bay State road .		•	•	•		411 02
Bay State road	o ^j	•		•		3,589 90
Boylston street .		•				9,604 43
Deerfield street .				•		2,658 19
Huntington avenue Ivy street	•					10 25
Ivy street						8,302 22
Miner street . Mountfort street .						255 19
Mountfort street.						4,367 24
Newbury street . Norway street .						14,536 86
Norway street .						151 35
Parker street .						21,805 37
St. Germain street						1,747 53
Parker street . St. Germain street Sherborn street .						10 75
Turner street .						13 00
2012201 201000						
Total						\$862,863 90
Less amount paid ou	t of	appro	priati	on for	Paving	
Division	•	•	•	•		23,150 12
Total			. 4			\$839,713 78
					1	

LAYING OUT AND CONSTRUCTION OF HIGHWAYS.

Sewer con	etrne	tion								
Labor		olon .	•						\$1,800	16
Teaming			, •	• .		· ·	Ţ,		682	
Gravel	•	· ·				•			400	
Graver	•	•	•	•	•	•	•	•	400	
									\$2,883	58
	,								\$2,000	
Arundel str	eet,	Beac	on to	Mour	atfort	tstreet	t.			
Labor .			5.0						\$278	46
Stone .					."				557	70
Advertising			. •						99	37
447 ft. straig	ght ed	gest	one						290	55
42 6 ft. circu	alar e	dges	tone						55	25
1 large and 3	smal	ll coi	ners						15	65
Amount pa	aid to	Н. (Gore	& Co.	:					
122 cu. yds.							\$30	50		
796 sq. yds.	maca	dam.	at 20	ets.			159			
228.8 sq. yds					·		537			
579.5 ft. edg							173			
411.7 sq. yds							432			
48.4 sq. yds.						•	193			
246.5 cu. yds	s. ora	vel.	at \$1	.20	o year		295			
10.5 sq. yds					85	ets .				
	-		_					00		
Work at B	eacor	1 Stre					ic.:			
½ day, single	team	l, at	\$0 =	• •		\$1 50				
7 hours' labo	r, at	Ф1.76) 	• •	•	1 36				
day double	caray	van,	at \$7		•	3 50 1 56				
day double hours' labo hours' ston	r, at	\$1.76) ,		•					
b hours' ston	e-cuti	ter, a	it \$3.	91 .	•	2 17				
					-	10.00				
A 33 15	4					10 09				
Add 15 per c	ent.	•	•	• •		1 51		20		
					_		11	60	1 010	. ~
							-	-	1,843	45
									#9.140	4.0
	, ,		TT (1	0	0				\$3,140	
Amount retai	ined f	rom	H. G	ore &	Co.				92	17
									Ø9 049	90
									\$3,048	20
Batavia stre	et. S	st. St	tepher	n to P	arke	r stree	t.			
Amount retai								ark		
done under							01 111)	\$411	02
done under	. 00110		10		•	•			WIII	U and
Bay State re	nad .	Rolo	ich to	Short	harn	atroct				
•	vau,	reare.	ign to	Buer	oorn	street	•		M=0	00
Laboi .	•	•	•	^ 0	•	•	•	•	\$52	00
α		7							050	
Carried	jorwa	ra,							\$52	00

Brought forward, Amount paid to James Killian: 542 cu. yds. sub-grading, at 35 cts	\$52 00
$5\frac{1}{4}$ days, foreman, at \$5 \$26 25 12 days, paver, at \$4.00	
Plus 15 per cent	
Amount paid in 1393 \$13,741 21 10,203 31	3,537 90
	\$3,589 90
	\$3,589 90 (Work un-
finished.) Labor	-
finished.) Labor	(Work un- \$613 60 171 02
finished.) Labor	(Work un- \$613 60 171 02 8,819 81
finished.) Labor	(Work un- \$613 60 171 02 8,819 81 \$9,604 43
finished.) Labor	(Work un- \$613 60 171 02 8,819 81 \$9,604 43

Brought forward, 900 sq. yds. gravel sidewalks, at 46 ets. 7.2 sq. yds. crosswalks laid, at \$1.20 1,741 cu. yds. gravel filling, at 84 ets	\$2,819 414 8 1,462	$\begin{array}{c} 00 \\ 64 \end{array}$	\$641	50
Resetting edgestone, gutters, and cross-				
walks: 1 day, foreman \$5 00 4\frac{3}{4} days, paver, at \$4.00 . 19 00				
4 days, rammer, at \$2.25 . 9 00 10 days, laborer, at \$2.00 . 20 00 5.4 lin. ft. circular edgestone,				
at 55 ets				
\$129 97 Plus 15% 19 50				
	149	47		
Less 1 day's use of steam-roller	\$4,854 15	27 00		
Amount paid in 1893	\$4,839 2,822			
			2,016	69
			\$2,658	19
Huntington avenue. (Work not starte	d)			
Labor	•	•	\$10	25
Ivy street, St. Mary's to Mountfort street	et.			
Labor	•		\$214	
Stone	•	•	1,393	
1,465 ft. straight edgestone	•	•	$\begin{array}{c} 7 \\ 952 \end{array}$	
$83\frac{2}{12}$ ft. circular edgestone			108	
Amount paid to James Grant & Co.:				
70 cu. yds. sub-grading, at 25 cts.	\$17			
2,380 sq. yds. macadam, at 4 cts 512 sq. yds. gutters laid, at \$2.32	95 $1,187$			
1,528 ft. edgestone set, at 25 cts	000			
1,124 sq. yds. brick paving, at \$1.10 .	1,236			
3,896 cu. yds. gravel, at 95 cts	3,701	20	0.00	1.1
			6,620	14
Amount retained from James Grant & Co	• •	•	\$9,295 993	
			\$8,302	99

Miner street, Beacon s						ny R		00
Labor Amount retained from	Doh	ortz	• end	0,1	•	for	\$10	00
work done in 1893		crty	and	O Le	ary,	101	245	19
			·			Ť		
							\$255	19
Mountfort stuggt And	nhon	3000	l to T					
Mountfort street, Aud					eet.		#100	0.7
Labor Stone $764\frac{10}{12}$ ft. straight edges	•	•		•	•	٠	\$163 1,098	
76410 ft. straight edges	tone.	•	•	•		•	497	14
$68\frac{7}{3}$ ft. circular edgesto	ne				•		89	
$68\frac{7}{12}$ ft. circular edgesto 5 small corners 2 large corners							16	
2 large corners .							° 11	
Advertising Sundries							$\begin{array}{c} 64 \\ 4 \end{array}$	00
				•	2.4	•	4	38
Amount paid to H. G.								
133.7 cu. yds. sub-gradi	ing, a	t 25	cts.	•	\$33			
1,349 sq. yds. macadam 303 sq. yds. gutters pay	i, at 2	20 Ct	S.	•	$\frac{269}{712}$			
768 ft edgestone set at	7eu, a	ιυ ΦΖ. tα	.00	•	230			
768 ft. edgestone set, at 627.5 sq. yds. block pay	ving.	at \$1	1.05	•	658			
9 sq. yds. flag crossings	at \$	4.00			36			
455 cu. yds. gravel, at \$	\$1.20				546			
25 sq. yds. gutters relai	id, at	85 c	ts.		21	25		
19 sq. vds. brick paving					12	35		
9 sq. yds. flagging cros	sswall	ks re	laid,	at	4	= 0		
50 cts 115 ft. edgestone rese	• .	•	•	•	4	50		
157 to edgestone rese	el, al	U	Q1 Q	06				
.157	•		3	91				
				_				
Add 15%			\$21	97				
Add 15%			3	30				
					25	27	0 = 10	
							2,549	93
							\$4,494	7.4
Amount retained from I	I. Go	re &	Co.				$\frac{\varphi 4,434}{127}$	50
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			•	•		
							\$4,367	24
N 1 1 1 1	1 0		TT .	. 5				
Newbury street, Char								
Labor								
Stone	•	•	.*	٠	•	•		
Filling Printing	•	*	•	•	•	•	383 59	20 62
Advertising							103	38
$35\frac{1}{42}$ feet circular edges	tone						45	96
2,516 feet straight edge						9	1,631	50
Carried forward,							\$4,819	28

Brought forward, Amount paid to F. H. Cowin: 192.5 cu. yds. sub-grading, at 35 cts	\$4,819 · 28
Credit by: 2,510 feet edgestone, at 65 cts \$1,631 50 41 feet circular edgestone, at \$1.30 53 30 1,106.66 tons stone screenings, at \$1.65 1,825 99	10,386 93
Amount retained from F. H. Cowin	\$15,206 21 669 35 \$14,536 86
Norway street. (Work not started.) Labor	\$119 35 32 00 \$151 35
Parker street, Huntington avenue to Westland avenuation Labor	\$986 66 6,147 31 125 73 7 28 14 55 16 80
Carried forward, \$16,174 58	\$7,298 33

Brought forward, 126 feet edgestone reset 769 cu. yds. gravel, at				5,174 46 845	62	\$7,298 8	33
V						17,067	0.1
Amount retained from	Doherty an	d O'L	eary			\$24,365 4 2,560 0	
						\$21,805 3	37
St. Germain street.							
Labor Advertising	• •	•	•	•	•	\$177 2 84 4	
Amount paid to Quin					۰	84 4	ŧδ
1,840 cu. yds. gravel, a						1,748 (00
						#0.000 r	
Amount retained from	Quimby &	Feron	son			\$2,009 3 262 3	
24 mount remained from	Quimoy ee	reigu	30ü	•	٠		
						\$1,747	53
Sherborn street.							_
Labor					٠	\$10 '	75
Turner street.							
Labor	• •	•	•	٠	٠	\$13	00
							_
N_{-}	EW EDG	EST	ONE				
The following table during the year:	s show the	e amo	ùnt (of no	ew e	dgestone s	et
	CITY P	ROPER	•				
Wards 6, 7, 8, 9, 10, 3	11, 12, 16	, 17, 0	ind i	18.	(Par	ving Distri	cts
	Nos. 8, 9,	and I	0.)			Lin.	ft.
Chambers-street extens	ion .						68
East Lenox street .							15
Lewis street extension		•	٠				28
Massachusetts avenue Cambria street .		•			•	. 6	ь9 36
Cambria succet	•	•	•	•	•	•	
						1,9	16
	Roxb	URY.					
Wards 19, 20, 21, a	nd 22. (1	Paving	n Dis	tricts	7, 9	, and 11.)	
, , , , , , , , , , , , , , , , , , , ,		Ü				Lin	
Arundel street .						. 5	
Batavia street.				0	0	. 1,0	15
Bay State road .						63 /1	10
	• •	•	٠	٠	٠	2,6	16

									Lin. ft.
Brought forwar	d,								4,211
Beacon street . Blue Hill avenue									162
Blue Hill avenue									1,102
Catawba street			٠						549
Centre street .									175
Commonwealth aver									10,227
Day street .									3,072
Deerfield street									998
									257
Hamerton street									220
Harold and Ruthve	n stre	eets							254
Heath street .							,		1,373
Holborn street									332
Howland street									180
Humboldt avenue			•						64
Hulbert street								Ì	50
Humboldt avenue Hulbert street Ivy street			•	•					1,611
Miner street .									626
Minden street .									43
Moreland and Mont	trose	stree	ts			·	i.		240
									2,310
Munroe street.				·		·	· ·		495
Newbury street							·	·	2,615
Parker street .					•	•	·		3,086
Raleigh street					•		•		204
Ruthven street	•	•	•	•			•	•	250
St. Alphonsus stree	t.	•		• •		٠		•	2,219
St. Botolph street	. 0	•				٠	•	•	719
Sewall street .			•		•	•	•	•	342
						٠	•	•	564
Thwing street.	•	•				•		٠	566
Wastmingtor street	•	•	•			٠	•	•	150
Westminster street Woodward avenue	•	•		•			•	•	58
Woodward avenue	•	•	•	•	•	•	•	•	•,,6
									39,324
									00,024
SOUTH BOSTON.									
		500	тн в	OSTON	٧.				
Wards 13, 14, and 15. (District No. 1.)									
									Lin. ft.
D street and Dorchester avenue								•	77
East Third street	•				•			•	72
East Second street									165
East Sixth street									77
Story street .									105
Vinton street .									25
									521

East Boston.

И	ards .	1 and	12.	(Dist:	rict 1	Vo. 2.)		
				(,		Lin. ft.
Condor street .									186
Everett street.									55
Falcon street .									207
Havre street .									110
Paris street .	٠								175
London street.									83
									816
		Ð	ORCHI	ESTER.					
	War	d 24.	(D	istrict	No.	6)			
									Lin. ft.
Algonquin street	•	•	•		•	•	•	•	656
Ashmont street	•	•		•				•	95
Blakeville street	•	•	•		•	•	•	•	793
Bushnell street		•	•				•		275
Clarkson street						•	•		337
Crescent avenue									537
Glenway street									64
Neponset avenue									155
Newport and Har	bor V	iew s	treets						566
Quincy street .			•						62
Roslin street .	٠								405
Talbot avenue									2,264
Welles avenue									50
West Park street									285
									6.544
									-
		W	EST R	Roxbu	RY.				
Wa	rd 23.	. (<i>I</i>	Distric	ts Nos	s. 5 c	ind 1	1.)		
									Lin. ft.
Atherton street			•	•			•		153
Boylston and Was					•	•			159
Brookfield street Hyde Park avenu	•						•		116
Hyde Park avenu	е.								232
Paul Gore street									93
Metropolitan aver									326
Sedgwick street		٠							65
Washington stree	t .								285
Weld Hill street									139
									1,568
									-,000

BRIGHTON.

	Ware	1 2	5.	(Di	strict	No.	4.)			
Farrington avenue	е.				٠					Lin. ft. 123
Highgate street										.987
Murdock street										107
Raymond street										106
<i>J</i>										
										1,323
		(Сни	ARLES	TOWN					
				X LULLILI.	0.40 11 14	•				
Wa	rds 3,	4,	an	d 5.	(Di	strict	No.	3.)		
~										Lin. ft.
Sprague street	*			•				٠		694
		R	ECA	PITU	LATIO	N.				
										Lin. ft.
City Proper .			0							1,916
Roxbury .		٠				0	4		•	39,324
South Boston.				•						521
East Boston .								6		816
Dorchester .										6,544
West Roxbury										1,568
Brighton .		٠							۰	1,323
Charlestown .		۰								694
										52,706

NEW BRICK SIDEWALKS.

The following tables show the number of square yards of new brick sidewalks laid during the year:

CITY PROPER.

Wards 6, 7, 8, 9, 10, 11, 12, 16, 17, and 18. (Paving Districts Nos. 8, 9, and 10.)

100	01 00000, 2	L1000	09 09	001000 1	,			
					. /		. /	Sq. yds
Castle street								96
Cambria street .						٠		28;
Chambers-street extens	sion		>					361
Harrison avenue .								150
Lewis-street extension								186
Massachusetts avenue								570
Shawmut avenue .	• 1							146
								1.537

Roxbury.

		1	COXBU	JRY.					
Wards 19,	20, 21	!, and	22.	(Dis	stricts	7, 9,	and	11.)
									Sq. yds.
Arundel street									412
Batavia street	•	•							850
Beacon street.							•		283
Blue Hill avenue			•						1,100
Cedar street .									81
Centre street .									184
Dudley street.									120
Elm Hill avenue									160
Forest street .									185
Gaston street.									47
Hartford street									444
Heath street .									440
Holborn street									112
Howland street		Ĭ		Ĭ.			Ť		129
Humboldt avenue		Ť	·	· ·					677
Ivy street .	•	•	•	•	•	•	•		1,124
Laurel street .	•	•	•	•	•	•	•	•	200
Miner street .	•	•	•	•	•	•	•	•	488
Monadnock street	•	•	•	•	•	•	•	•	91
		•	•	•	•	•	•	•	
Mountfort street				•	•	•	•	•	628
Moreland and Mo		street	IS	•	•	•	•	•	158
Munroe street	•	•	•	•	•		•	•	393
Newbury street	•	•		•	•		•	•	2,071
									163
St. Alphonsus stre		•	•		•				327
St. Botolph street									120
Terrace street									84
Thorndike street									376
Vine street .									86
								-	
									11,533
		Sour	т Вс	STON.				-	
TI7	79 7					37.	7 \		
Wards	15, 1	4, anc	<i>t</i> 15.	(D	istrict	LVO.	1.)		Sq. Yds.
Broadway .									90
D street	•	•	•	•	•	•	•	•	84
	•	•	•	•	•	•	•	•	52
Dorset street .	•	•	•	•	•	•	•	•	75
E street East Eighth street	•	•	•	•	•	•	•	•	
			•	•	•	•	•	•	804
East Second and S				•	•	•	•	٠	713
			•	•	•	•	•	•	63
East Third street		•		•		•			132
Howell street .		•			•				400
I and East Ninth s								•	172
Vinton and F stree	ets								51
Washburn street	•		.					•	70
									2,706

East Boston.

W	ards I	! and	2.	(Dist	rict A	To. 2.)		
				`					Sq. Yds.
Bremen street.	•	•	•	•			•	•	76
Brooks street .	•	•	•	•			•	•	314
Condor street.	•	•	•		•	•	•	•	148
East Eagle street	•	•	•	•	•	•	•	•	558
Everett street.	•	•	•	•			•	•	52
Falcon street .	•	•	•		•		•	•	184
Havre street .	•	•	•	•	•	•		•	200
London street.	•	•		٠	•	•	•	•	62
Morris street .	•	•	•	•		•	•	•	53
Paris street .	•	•	٠	•	•	•	•	•	128
Prescott street		•		•	•	•	•	•	114
West Eagle and S	aratog	ga su	eets	•	•	•	•	•	226
									2,115
									2.110
		D	ORCH	ESTER					
	Ware	7 24	(D	historica	t No.	6 \			
	" w	N 21-1:	(D	1307 100	140.	0.)			Sq. Yds.
Dorchester avenue									95
Carruth street									177
Mt. Vernon street									75
Virginia street									106
0									
									453
		Way	m D						-
				OXBÚR					
War	d 23.	(D	istric	ts No	s. 5 a	nd 1	1.)		
77.1									Sq. Yds.
Egleston and Scho	ol str	eets	•	•	•	•	•	•	189
Hyde Park avenue Weld Hill street	•	•	•	•	•	•	•	٠	342
Weld Hill street	• ,	· 1	٠,	٠,	•	•	•	٠	187
West Walnut Parl	and	Cople	ey sti	reet	•	•	•	•	116
									834
]	Brigi	ITON.					
	Warne	1 05	(1)	i atasi at	370	1\			
	ware	t 20.	(D	istrici	No.	4.)			
			Noth	ing.					
		CE	IARLE	STOW	N.				
TIZ an	ds 3,	1 000	. J E	(D)	otmoat	7170	9 \		
war	us 5,	4, 07	m 5.	(Dt)	SITICI	LVO. 6) .)		Sq. Yds.
Essex street and F	Ruther	ford	aveni	110					88
Moulton and Vine									126
Sprague street									223
Tragac serves									
									437

RECAPITULATION.

							Sq. Yds.
City Proper	•						1,537
Roxbury .		•					11,533
South Boston			• •				2,706
East Boston							2,115
Dorchester							453
West Roxbury					• ,		834
Brighton .							0
Charlestown							437
							19,615

PROPERTY IN CHARGE OF THE DEPUTY SUPER-INTENDENT OF PAVING DIVISION.

Buildings and wharf on Albany street, opposite Sharon street. The building is of brick and wood, and covers some 8,000 square feet of land, and is divided into a shed for storage, blacksmith's and carpenter's shops, tool-room, and stable. The total contents of the lot, including wharf and building, are 63,180 square feet.

Fort-hill Wharf, containing 21,054 square feet placed in charge of the Paving Department May 18, 1874, to be used for the landing and storage of paving-blocks and gravel until such time as said wharf shall be wanted for the extension of Oliver street. A part of said wharf is occupied by a tenant-at-will, at \$500 per annum, part by Sanitary Division.

Lot on Chelsea, Marion, and Paris streets, East Boston, containing 43,550 square feet. Part of this lot used by the Sewer Division.

Ledge lot on Washington street, corner Dimock street, Roxbury, containing 134,671 square feet. Upon this lot are buildings containing a steam-engine, and stone-crusher.

Highland-st. Stable lot. Upon this lot is a large brick stable, erected in 1873, and occupied by the Sanitary and Paving Divisions; also a brick building used as a blacksmith's shop, and a shed for the storage of tools, etc.

Ledge lot on Codman street, Dorchester, containing 299,000 square feet, was purchased in 1870. Upon this lot is a shed containing a steam-engine and stone-crusher, also a stable and toolhouse.

On the Almshouse lot, Hancock street, Dorchester, there are two stables, also a shed and tool-house.

Ledge lot on Magnolia street and Bird place, Dorchester, containing 81,068 square feet. This lot was purchased by the town of Dorchester in 1867.

Downer-avenue lot, Dorchester, containing 35,300 square feet. West Roxbury. — On Child street, a lot of land containing 43,024 square feet, upon which are a stable and shed, blacksmith's shop and tool-house.

Gravel Lots. — In the town of Milton, on Brush Hill road, con-

taining 64,523 square feet, hired by the town of Dorchester for nine hundred and ninety-nine years. Morton street, Ward 23, containing about one-third of an acre, purchased by the town of West Roxbury in 1870, used for storage purposes.

Ledge and gravel lot, rear of Union street, containing about 37,000 square feet, purchased by the town of Brighton. This lot

is at present leased.

Gravel and stones on lot on Market street, Ward 25, purchased

by town of Brighton.

Ledge lot on Chestnut Hill avenue, Brighton, containing about 13 acres, upon which are an office, engine-house, stable, and crusher plant.

On Medford street, Charlestown, a wharf lot, foot of Elm street, containing 8,000 feet, upon which are sheds, office, stable, etc.

Property belonging to the Paving Division, consisting of 91 horses, 71 carts, 15 water-carts, 16 wagons, 5 steam-rollers, 7 stone-crushers, and 7 engines.

In South Boston, corner of H and Ninth streets: stable, carriage-house, shed, tool-house, and office, on leased land.

On Hereford street: a yard with shed, tool-house, and office.

Wharf, known as Atkin's wharf, 521 Commercial street, purchased in 1887 for \$24,000, containing 22,553 square feet, having on it an office and stable.

On Boylston street, at Boylston Station, office and shed.

Respectfully submitted,

Darius N. Payson,
Deputy Superintendent of Paving Division.

APPENDIX C.

REPORT OF DEPUTY SUPERINTENDENT OF THE SANITARY DIVISION.

STREET DEPARTMENT, SANITARY DIVISION, 12 Beacon Street, Boston, February 9, 1895.

MR. B. T. WHEELER, Superintendent of Streets:

DEAR SIR: Herewith I send you a statement of the doings of the Sanitary Division during the year 1894, showing the expenditures and income of this division from February 1, 1894, to January 31, 1895.

PHILIP A. JACKSON, Acting Deputy Superintendent.

FINANCIAL STATEMENT.

Amount of appropriation	. \$450,000 00
Transferred from Paving Division	. 1,959 02
Transferred from surplus revenue	. 24,923 82
Transferred from street-watering	. 76 18
3	
Total amount expended	. 467,459 02
Balance transferred to City Clerk'	.'s
Department	. \$9,459 04
Balance transferred to County of	of
Suffolk	. 40 96
	\$9,500 00

Items of Expenditures.	Amounts charged to the Sanitary Division.	Amount paid by other Divisions.	Total amount expended.
For salaries of Deputy Superin-			******
tendent and clerks in office For labor in collecting and re-	\$6,078 90		\$6,078 90
moving house-dirt and ashes	141,530 93		141,530 93
For labor in collecting and re-	111,000 00		111,000 00
moving house-offal	90,353 83		90,353 83
For labor of foremen, mechanics,			
watchmen, and feeders	17,779 75		17,779 7
For labor of men employed in stables and yards	11,718 08		11 710 00
For grain used in stables	18,617 66	\$4,133 27	$\begin{array}{c} 11,718 & 08 \\ 22,750 & 98 \end{array}$
For hay and straw used in stables	10,597 80	1,639 43	12,237 23
For horses	3,125 00		3,125 00
For stock and tools used in			
blacksmith-shop	5,607 54	38 00	5,645 54
For stock and tools used in	4 471 10		
wheelwright-shop	4,471 19		4,471 19
harness-shop	2,606 08	8 00	2,614 08
For stock and tools used in	2,000.00	0 00	2,011 00
paint-shop	772 00	89 08	861 08
For extra teams, collecting ashes			
and house-dirt	23,809 00	10,504 50	34,313 50
For extra teams, collecting	16 995 00		10 00° 00
house-offal	16,335 00 4,044 36	• • • • • • • • • • •	16,335 00 4,044 36
For fuel, gas, and electric lights,	1,549 39	* * * * * * * * * * * * * * * * * * * *	1,549 39
for veterinary services and medi-	2,020 00		1,010 00
cines for horses	1,367 99		1,367 99
For shoeing horses (outside			
shops)	1,449 16	13 50	1,462 66
for printing, stationery, and advertising	1,463 35		1,463 38
or water-rates	835 80		835 80
for offal stock, consisting of	333 33		000 00
buckets, etc	1,889 77		1,889 77
for ash stock, consisting of cart-			
covers, baskets, etc	1,215 00		1,215 00
for stable stock, consisting of curry-combs, brushes, soap, etc.	1 600 06		1 000 00
for dumping-boat, rental, roy-	1,608 06		1,608 06
alty, towage, etc	47,164 22	125 00	47,289 22
for collecting house-dirt and	21,202 22	12.7 00	11,200 22
ashes in East Boston	8,154 02		8,154 02
for collecting house-dirt and			
ashes in South Boston, west of Dorchester st	4.007.00		4.00** 00
for collecting house-dirt and	4,937 62		4,937 62
ashes in South Boston, east			
of Dorchester st	5,875 00		5,875 00
for collecting house-dirt and	,		2,2.2
ashes in Dorchester, south of			
Park, School, and Harvard sts.	4,100 00		4,100 00

Items of Expenditures.	Amounts charged to the Sanitary Division.	Amount paid by other Divisions.	Total amount expended.
Brought forward For collecting house-dirt and	\$439,056 50	\$16,550 78	\$455,607 28
ashes in Dorchester, north of Park, School, and Harvard sts. For collecting house-dirt and	3,538 49		3,538 49
ashes in West Roxbury, south of Seaver and Boylston sts For collecting house-offal in	5,850 00	í 	5,850 00
East Boston	8,000 00		8,000 00
Brighton	2,800 00		2,800 00
Dorchester	5,644 39	1	5,644 39
Committee expenses, "disposal of offal" . 400 00 Travelling expenses . 384 46 Damage by city teams, 35 00 Newspaper 6 00 Miscellaneous supplies			
for office 282 06	2,569 64	3 00	2,572 64
Total Paid by Street-Cleaning Division Paid by Paving Division Paid by Sewer Division Paid by County of Suffolk	\$467,459 02 15,119 42 164 50 222 08 1,047 78		
	\$484,012 80	\$16,553 78	\$484,012 80

REVENUE.

Amount of moneys deposited and bills presented to the City Collector for collection, for material sold and work performed by the Sanitary Division of the Street Department during the year ending January 31, 1895.

Moneys deposited with the City Collector.

From sale of house-offal .			\$26,262 40	
From letting of scow privileges			677 65	
				\$26,940 05
Bills deposited with	the	City	Collector.	
For the removal of engine ashes			\$10,586 41	
For the sale of manure			870 36	
For the sale of ashes and house-d	irt		2,665.62	
For the sale of house-offal .		۰	160 50	
For the sale of tin cans .			73 91	
For the letting of scow privileges			23 70	
For the letting of Fort Hill wharf			1,000 00	
				15,380 50
				\$42,320 55
				WIE 9020 00

Amount expended for the Collection of House-dirt and Ashes and

\$44,870 94

Amount collected by the City Collector .

House offal, Labor and Contracts.										
Districts.	Expended for	collecting.								
	Ashes.	Offal.								
City Proper South Boston East Boston Charlestown	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	\$53,541 33 8,096 00 7 8,000 00 5,620 00								
Roxbury West Roxbury Dorchester Brighton	27,241 50 ⁴ 9,042 00 ⁵ ⁶ 9,409 49	13,847 50 6,892 00 9 8,001 39 8 2,800 00								
Totals	\$173,986 06	\$106,798 22								

Ashes Contract.	¹ F. J. Mohan	\$5,875.00	for	territory	east of Dorchester street.
6.6	² D. O'Sullivan	4,937.62	6.6	66	west of Dorchester street.
6.6	3 Wm. F. Hedrington,	8,154,02	6.6	6.6	in East Boston.
6.6	4 James Doonan		66	616	south of Seaver and Boylston streets.
66	⁵ John Bradley	3,538.49	66	6.6	south of Park, School, and Harvard streets.
**	⁶ John McShane	4,100.00	66	66	north of Park, School, and Harvard streets.
Offal Contract.	7 Thomas Mulligan .	8,000.00	6.6	6.6	of East Boston.
6.6	8 Allen Clarke	2,800.00	66	6.6	of Brighton.
6.6	9 John McShane	5,644.39	66	4.6	of Dorchester.

Total Cost for Removal of House-dirt, Ashes, and House-offal.

HOUSE-DIRT AND ASHES ACCOUNT.

\$141,530 93 101,209 14 10,812 62 7,638 49 5,850 00
8,154 02
٠.
\$90,353 83 76,817 06
8,000 00
2,800 00 5,644 39
183,615 28

8,648 54 \$467,459 02

2,569 64

Material collected by Districts.

Incidentals . . .

					TEA	AMS.				
		YARDS.								
Material.	South.	West.	Roxbury.	Charlestown.	Brighton.	So. Boston.	E. Boston.	Dorchester.	W. Roxbury.	Total loads.
House-dirt and ashes	104,136				,			,		326,798
House-offal	29,202		10,524	2,356	1,539		3,720	3,296		50,637
Totals	133,338	83,434	59,174	20,884	7,403	21,589	16,895	20,818	13,900	377,435

Disposition of Material Collected.

WHERE DUMPED.	Loads house-dirt and ashes.	Loads house- offal.	Street-sweep- ings, Street- Cleaning Div.	Cesspool matter, Sewer Div.	Total Loads.
First street, East Cam-					
bridge	23,801				23,801
Swett street, "Lamb"	23,34?				23,342
Mill pond, Charlestown,	17,198				17,198
Norfolk ave	11,993				11,993
Bartlett court	11,894				11,894
Centre street	9,612				9,612
Brookline ave., "Cobb,"	7,995				7,995
Bryant street	6,199				6,199
Brookline ave., "Gilli-					,
gan "	3,745				3,745
Ward street	3,497				3,497
Swett street, "Cobb"	2,924				2,924
Duncan street, "Paine,"	2,893				2,893
Duncan street, "Berri-					,
gan "	2,890				2,890
Various places, "City Teams"					,
Teams "	36,336				36,336
Various places, "Con-					
tracts "	66,293				66,203
At sea by scows	96,186	5.025	30,478	1,376	133,065
Sold to farmers		37,057			37,057
East Boston, by Thomas			·		
Mulligan		3,720			3,720
Brighton, by Allen					
Clarke		1,539			1,539
Dorchester, by John					
McShane		3,296			3,296
		H	00.4==		140.000
	326,798	50,637	30,478	1,376	409,289

Comparative Table showing Cost of collecting Ashes and Offal and delivering same at Dumps.

Cost	per	cart-load,	inel	luding	g adm	inistra	tio	ı exp	enses		\$1	24
6.6	66	66	min	us		6.6			6.6		1	22
6.6	6.6	6.6	of a	ashes.	labor	only						74
64	4.6	6.6	6.6	6.6		$l ext{ teams}$				ts		49
5.6	6.6	6.6	6.6	6.6		r, hired						84
6.6	4.4	6.6	"			only					2	32
4.6	6.6	6.6				teams,				s .	2	77
6.6	6.6	6.6	6.6			, hired					. 3	63
4.6	4.4	scow-load	l to 1								86	73
4.6	6.6		6.6				6.6	6.6				20

Material collected and Cost of Hired Teams.

Total.	With extra man.	10,9351	135,050 11,822	146,872	\$104,858 90	
=	Single team.	11,363			1	
West Roxbury, south of Seaver and Boylston, Doonan cont't.	7 teams in winter. 4 teams in summer.		8 13,900	13,900	\$5,850 00	
Dorchester offal, McShane's con- tract,			3,296	3,296	\$5,644 39	II.
Dor., south of Park, School, and Harvard, Brad- ley contract.	5 teams in winter. 3 teams in summer.		7 8,323	8,323	\$4,100 00	50 per year. 00 %
Dor., north of Park, School, and Harvard, McShane's cont't.	6 teams in winter. 5 teams in summer.	8	6 9,199	6,199	\$3,538 40	6 \$4.237 7 4,100 8 5,850 9 8,000
Bo. Boston, east of Dor. st., Mo-	4 teams in winter. 3 teams in summer.	:	5 9,818	9,818	\$5,875 00	Contract.
So. Boston, west of Dor. st., O'. Sullivan's con-tract.	5 teams in winter. 4 teams in summer.	· · · · · · · · · · · · · · · · · · ·	4 11,771	11,771	\$4,937 00	
Brighton.	With extra man.	251	1,889	3,428	\$4,055	£
Brig	Single team.	251				(241)
Е. Вовтоп.	4 teams in summar.		2 13,175 8 3,720	16,895	\$16,154 02	
il H	.resms in winter.				69	
Charles- town Yard.	With extra man.	28	183	183	\$140 00	
Cha	Single team.	00 01	. 08	, 00		
bury rd.	With extra man.	2,793	9,550	12,033	,163 00)
Roxbury Yard.	Single team.	2,859		1	#14,163	
Yard.	With extra man.	1,726	13,145	13,145	\$8,630 00	per year.
West Yard	Single team.	1,726	:	,	%. ∰	00 ber 000 000 000
South Yard.	With extra man.	6,499 6,1371	14,097	44,881	\$31,772 00	1 \$2,800 00 2 7,300 00 3 8,000 00 4 5,985 00 5 5,900 00
South	Single team,	6,499			\$31,	
			d Ashes.		pended	Contract.
		Days' work	Number of loads coll'd	Total.	Amount expended	

Expenses of Dumping-Boats.

			Expenses of Dumping-Doats.	
Amount	expended	for	Royalties (per year) \$2,415 00	
66	- 66	6 6	Rental " 4,560 00	
			diamento de la compansa de la compan	\$6,975 0
66	66 .	6 6	10 ming by department to w-boat \$4,000 10	
6.6	66 -	6 6	Towing by hired tow-boat . 783 00	
			T	5,779 1
66	66	66	Repairs on boats \$5,059 26	
		• •	" " wharf 2,598 81	
6.6	66	6.6	Takan pantain di 500 00	7,658 0
66	66		Labor, captain \$1,500 00 " crew and dumpers . 3,903 29	
			crew and dumpers . 5,505 25	5,403 2
6.6	6.6	66	Insurance	100 0
6.6	6.6		Incidentals, Disinfectants . \$63 40	100 0
			Removing refuse,	
			Nantasket Beach, 75 00	
			Manilla rope . 52 03	
			Telephone 30 00	
			Blocks, cleats, etc. 2 80	
			Flags 8 50	
			Kerosene oil . 4 50	
			Stove, etc 9 70	
			Coal 13 91	
			Salt 10 50	
			Keys, etc 2 40	
			Ferry-tolls, etc. 4 23	
				276 9
6.6	6.6	6.6	I dichase of dumping-boat,	
			royalties, etc	25,000 0
				# £ 1 100 E
* Poid	Sower Di	wici	on towards maintenance of boat.	\$51,192 5
			sea by department tow-boat . 279	
			sea by hired tow-boat	
24 6111106	or or trips	00 1		
			302	
Cost p	er trip, \$8	36.7		
			ds of garbage carried to sea, 133,065.	
			20 cents.	

Cost per cart-load, 20 cents.

April 14, 1893, department tow-boat, the "Cormorant," commenced work.

Number of Carts collecting House-dirt, Ashes, and Offal.

Offal-wagons	owned	by	Sanitary Division		86
6.6	in use	6 6	Thomas Mulligan, East Boston		6
6.6			Allen Clark, Brighton .		3
6.6	66	66	John McShane		7

Capacity of Offal-wagons

102

During the fall of 1892, 24 offal-wagons were measured and contents weighed for the purpose of obtaining the capacity of wagons and the weight of offal per cart-load. Their capacity averaged $3\frac{3}{6}$ cord ft., or 56.25 cu. ft., and the weight averaged 3,115 lbs. A cord equals 128 cu. ft., or 7.091 lbs. Price per cord for offal same as 1892: South yard, \$4.00; Highland yard, \$5.00; Charlestown yard, \$4.00.

Ash-carts.

Carried forward.	٠	•	172	102
" " James Doonan, West Roxbury			7	
" in use "Wm. F. Hedrington, East Boston			6	
Ash-carts owned by Sanitary Division			159	

	STREET D	EPARTMEN'	T - SANIT	ARY DIVISI	on. 243
		232 1110 2 211 2111	. 0111111	MI DIVISI	OH. 240
Bro	ught forward,				172 102
Ash-carts	s in use by Jo	hn Bradley, I	Dorchester		4
6.6	· " Fr	ancis J. Moha	in, South Bos	ton	$\tilde{4}$
6.6	" " De	enis O'Sulliva	n, " "	6	6
6.6		hn McShane,			6
Market-v	vagons owned	by Sanitary I	Division .		.7
					- 199
Gran	nd total .				201
Grai	id totai .		• •		301
		Cost o	f Carts.		
	1884. Ash-	carts		\$148	00
	1886.			142	00
	1888.			107	00
	1001.	66		133	00
	1892.			142	00
	1893.			142	
	1894.			140	00°
Acco	ount of the l			terial collec	ted from
		1882 to Fe	bruary 1, 18	95.	
YEAR.	Ashes.	Offal.	Street-	Cesspool	Total loads.
A 1324.10+	23.5110.5	OHai.	sweepings.	matter.	10tal loads.
1882	159,197	28,385	52,381	10,051	250,014
1883	169,610	27,408	58,272	8,801	264,091
1884	, 182,642	28,520	62,222	12,578	285,962
1885	193,734	31,206	61,455	13,151	299,546
1886	209,129	33,170	59,875	11,392	313,566
1887	220,186	36,724	68,990	14,333	340,233
1888	233.514	37,709	68,019	1 5,644	344,886
1889	227,325	40,183	70,476		337,984
1890	245,730	40,525	70.449		356,704
1891	² 313,464	46,742	3 10,564		370,770
1892	303,878	46,343			350,221
1893	320,571	51,415			371,986
1894	326,798	4 50,637			377,435
(T) . 1	0.10* 770	400.005	700 700		1 000 000
Total	3,105,778	498,967	582,703	75,950	4,263,398
			1		1
¹ July	1, 1888, the Sewe	er Department c	ommenced clean	ing out cesspools	
² Ashe	s from January	1, 1891, to May 1	, 1891		104,046
Anne	s from may 1, 10	or, to represent	1,1002		313,464
8 Marr	1 1801 the Stree	t.Cleaning Divis	ion commenced	cleaning streets.	
4 Thon	nas Mulligan, Ea	st Boston, collec	eted	· · · · · · · ·	3,720
Aller	Clarke, Brighte	n			1,539
John	McShane, Dorcl	nester			3,296 8,555
	6	6 Howards	ing and Di-	olcomithing	0,000
	Cost o	i morsesnoe	ing and Bla		04-1303
Stock			. \$1,884 08	Division Shop.	Outside Shops.
Labor			2,498.75		
Lianot			2,100 10	\$4,382 83	\$1,582 07
					ψ1,002 U1
			SHOES PUT	ON.	
Horses o	wned by Sanit	tary Division			. 6,921
6.6	" Stre	et-Cleaning D	ivision .		. 1,781
4.6	· · · · Pavi	ng Division			. 227

. . 8,929

Contracts

Payments made by	the city.	87,000 00 16,000 00 5,644 39 10,666 60 9,993 75 7,004 19 3,538 49 4,937 62 6,428 02 81,975 00
BACT.	Ends.	April 29, 1895. Jan. 1, 1896. Jan. 1, 1896. July 25, 1904. Mar. 1, 1895. April 15, 1895. April 15, 1895. Mar. 1, 1896. Mar. 1, 1896. Feb. 1, 1896.
CONTRACT	Commences.	April 29, 1892. Dec. 20, 1892. Mar. 23, 1894. July 25, 1894. Mar. 1, 1893. Mar. 30, 1893. Mar. 1, 1894. Feb. 6, 1894.
Price,		\$2,800 00 per year. 8,000 00 8,000 00 5,500 00 5,850 00 4,100 00 5,985 00 7,300 00 1,500 00 per year. 1,500 00 per year.
Contractors.		Allen Clarke. Thomas Mulligan. John McShane. N. E. Construction Co. Francis J. Mohan. James Dooman. John Bradley. John McShane. Denis O'Sullivan. Wm. T. Hedrington. Barney D. Boat Co.
OBJECT,		Removal of house-offal in Brighton Disposing of Dorchester offal Removal of ashes in part South Boston C. C

Material Sold by Coutract.

Payments	City Collector.	\$73 91	126 00 366 00	. 427 00 22 75 37 50
RACT.	Ends.	Feb. 1, 1894.		
CONTRACT.	Commences.	Feb. 14, 1893. Feb. 1, 1894.	Aug. 1, 1892.	
	Price.	\$1 50 per ton.	9 00 per month. 3 00 a horse per year.	1 25
	Contractors.	O'Connor Bros.	John Krug. Wyman Bros.	Geo. P. Winn. J. A. Budlong & Son. Thomas Burke.
	Orject.	Refuse tin cans	West Roxbury John Krug. Manure of horses at South Yard Wyman Br	Manure of horses at West and Charlestown Yards

Hay and Grain.

Account of Hay, Grain, and Straw fed out and used February 1, 1894, to February 1, 1895.

Horses, Divisions: San, Street-CI.	31,786 12 820 44,606 Average per 87		17,716 11,799 29,515 Average per 49 day, 32
Lbs. per Horse per day.	1232674 1424604 142255 143356 3 1646 3 1648	3236803 44608	16.108 15.108 15.108 2.2423 3.000 2.855 3.000 2.855 3.000 3.
Cost per Horse Lbs. per Horse per day.	\$0.11255635 0.19416633 0.19416633 0.121515 0.03 7846 0.03 2894 1.6 N 6	\$0.3727574	\$0.14 \$613 \$2865 \$0.02 \$2865 \$0.02 \$2865 \$0.01 \$29482 \$0.01 \$238 \$0.394324\$
Total Cost.	\$5,156 87 8,891 77 149 81 661 21 1,417 64 480 00 5 80 16 86	\$16,779 96	\$4,212 83 6,427 76 6,427 76 589 75 225 00 2 38 17 10
Pounds.	567,946 649,088 14,425 88,062 135,464 6,400	1,464,195	472,348 462,016 7,450 81,453 3,000 2,850 1,029,167
Bushels.	20,284		14,453
Bales.	2,619 377 32 bbls. 8 sacks		2,008 357 15 bbls 2½ sacks.
Bales. Bushels. Pounds. Total Cost.	Hay Oats Shorts Straw Corn English vegetable food Sait	Tetal	Hay. Oats Oats Straw English vegetable food Salt. Carrots
	South- yard Stable.		West- yard Stable.

Recapitulation.

Number of Horses Fed.		Sanitary Division, 70,610 Street-Cleaning Division, 28,765 Total, 99,375 Sanitary Division, 198 Street-Cleaning Division, 79 Total, 272	90
Horses per Day.	Fed out, Pounds.	44.14.00 40.00 4.00 4.00 4.00 4.00 4.00 4.00 4.0	34 909
Horses	Cost.	\$0.12951895 0.20951895 34718 0.0161121 0.0187460 0.01 54285 6771	\$0.38\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Cost.		\$12,903 63 20,387 98 347 16 1,604 96 1,864 25 1,050 00 8 18	\$38,233 97
Pounds.		1,434,721 1,467,200 33,125 215,936 203,392 14,000	3,379,659
MATERIAL.		Hay Oats Shorts Straw Corn English vegetable food Salt Carrots	

99,375 horses (average number per day).....272

House-offal.

There are employed in removing house-offal 195 men and 91 wagons. The offal is removed from dwelling-houses twice a week during the summer months and once a week during the winter; from hotels, markets, and restaurants it is removed daily. There are sixty-two routes. The men are required to enter the yards, collect the offal, and empty the same into wagons, then drive to one of the depots, located as follows: One on Albany street, one on Highland street, Roxbury, and one at the Almshouse, Charlestown; also to the dumping-boat wharf on Atlantic avenue.

The offal is sold to farmers of adjoining towns mostly; the balance is dumped on the scow and carried to sea. About 10 per cent. of the quantity collected during the past year has been dis-

posed of in this manner.

During the past year the collection of house-offal in the Dorchester District was let out by contract; this makes three districts

let out by contract for the collection of house-offal.

The New England Construction Company made an agreement during the year to dispose of all house-offal collected under the McShane contract at the rate of \$2,500 per year; their plant was erected on land owned by the city of Boston on Gibson street, Dorchester, and is now in running order.

House-dirt and Ashes.

In the collection of house-dirt and ashes there are employed 207 men and 159 carts. This material is removed from hotels, tenement-houses, and stores daily; from dwelling-houses once a week. There are eighty-two regular routes. The City Ordinances of 1892 require that house-dirt and ashes shall be kept in an easy, accessible place for removal, the men being obliged to enter yards and areas, remove receptacles to the sidewalk, where their contents are loaded upon teams. The receptacle is then replaced in its original position. The material is disposed of, if possible, on low lands, being used for filling, and also dumped on scows to be carried to sea. Of the amount collected last year, 29 per cent. was disposed of at sea.

Three sections of the city were let out by contract, to wit: territory lying west of Dorchester street, South Boston, part of Dorchester lying north of Park, School, and Harvard streets, also East Parter and in a total of six ask acetwest districts.

East Boston; making a total of six ash contract districts.

Horse Account.

1894.		Dr.	1894.	Cr
an, 1.	On hand,	202	Feb. 1.	Transferred to Street-
uly 28.	Purchased,	1		Cleaning Division,
ct. 30.	66	1	Feb. 19.	Died,
ec. 6.		6	Mar. 2.	Returned Paving Div.,
" 13.	6.6	7 8 1	April 17.	Died
			May 15.	6 6
			22.	Sold,
			" 29.	
_			June 5.	Killed,
			" 7.	46
			Sept. 27.	Died,
			Dec. 15.	6.6
			. 27.	6.6
			" 31.	44
			1895.	
			Jan. 19.	
			" 31.	On hand, 19
Total,		211	Total	. 21

ORGANIZATION.

1 deputy superintendent.	4 watchmen.
4 clerks.	3 feeders.
3 foremen.	6 messengers.
1 captain of scows.	7 stablemen.
6 sub-foremen.	12 yardmen.
1 inspector.	16 dumpers.
9 mechanics.	188 ash-cart drivers and helpers.
8 talleymen or aids.	136 offal-cart drivers and helpers.
	405 employees.

The mechanics of this division are engaged in the painting of carts, street signs, wagons, etc., shoeing of horses for the Paving, Street-Cleaning, and Sewer Divisions, also the making and repairing of harnesses.

APPENDIX D.

REPORT OF THE DEPUTY SUPERINTENDENT OF THE SEWER DIVISION.

CITY HALL, ROOM 44, BOSTON, February 1, 1895.

Mr. B. T. Wheeler, Superintendent of Streets:

Sir: The following report of the expenses, income, and business of the Sewer Division, from February 1, 1894, to February 1, 1895, together with a brief statement of the present condition of the sewers and other property, the work done this year, and what should be done in the near future that the efficiency of the sewers may be improved, is respectfully submitted.

The Sewer Division has charge of the following work:

- 1. The maintenance and construction of all common sewers and catch-basins.
 - 2. The maintenance of the Main Drainage Works.

3. The maintenance of Stony brook.

- 4. The maintenance and construction of all street culverts.
- 5. The preparation of plans and the engineering and supervision required on the construction and maintenance of all work connected with the division.
- 6. The granting of permits for all connections to be made with the common sewers, and the custody of bonds filed by drainlayers authorized to make such connections.

7. The levying of assessments on estates benefited by the con-

struction of sewers.

Ninety thousand eight hundred and two (90,802) lin. ft. of sewers have been built during the past year by the city, and twenty-four thousand eight hundred and seventy-seven (24,877) lin. ft. have been built by private parties according to the plans and under the inspection of this division and accepted by the city under the usual forms of release.

CITY PROPER AND BACK BAY DISTRICTS.

The sewers in Hull, Beverly, Commercial, Fayette, Falmouth, and Caledonia streets are broken down or settled to such an extent as to require rebuilding.

The main sewer in the two streets last named is very badly settled and has been shored up for years; if it fall in, it will cut off the drainage of a considerable territory.

The sewers in the Canal-street district remain in practically the

same condition as they have been since 1883, filled with sewage and sludge. The level of the sewage in the system has been lowered a little by the building of the sewer in Lancaster street last season, and will be reduced a little more upon the completion of the sewer in Merrimac street now building, but the benefit so obtained must be considered as a slight relief only, not a remedy. The condition of this system of sewers was fully discussed in the report for 1891, to which reference is made. The building of the relief sewer therein described, across the city, has been postponed on account of the uncertainty in regard to the proposed subway, the route of which crosses that of the proposed sewer. But the work need not be longer deferred, as the plans for the subway are now sufficiently well defined as to show that, if built, it will only cause an unimportant deviation in the route of the sewer. There is no other large district in the city in which the sewers are in such a deplorable condition; the fact that much of it is occupied by tenement-houses makes the case worse.

In 1888-89 a large main sewer was built from Fort Point Channel through Mt. Washington avenue, Federal and Essex streets, to the corner of Kingston street, intercepting at this point the heavy flow of sewage and storm water which formerly flooded out the district in the vicinity of Beach street. The underlying idea was to isolate the Beach-street district from the rest of the system, and connect it directly with the intercepting system, in the same manner as the Dover and Dedham streets district have been treated, so that it, like them, might receive the benefit of direct connection with the pumps, and its low cellars be thereby ensured against flooding. An essential feature of the scheme is to shift the district regulator from Dover street to a point upon the east side interceptor north of Beach street, and to build small regulators at the connections of the Harvard and the Oswego streets

sewers.

These three regulators have not been built; the system, therefore, does not operate as designed. Moreover, the Harvard-street sewer, where it crosses the interceptor, is reduced in size. The plan for the regulator at this point comprises an enlargement of the sewer; the fact that cellars in this district have been flooded during storms shows that such enlargement is necessary.

The work of building these three regulators, to complete the system, although difficult and expensive, should not longer be

delayed

Incidentally it should be mentioned that the old wooden 4×5 ft. box sewer in Federal street, now practically unused, should be filled with gravel in order to ensure the safety of the street, as it will rot and fall in.

Attention has been repeatedly called to the condition of the sewerage of the Faneuil Hall markets; plans are ready for a satisfactory system, and the work should be done before warm weather.

Throughout the greater portion of the Back Bay territory the sewers have been built in the passageways between the main streets, instead of in the main streets, as in the remainder of the city. This system, although an excellent one as far as conven-



OLD WOODEN SEWER - DOVER STREET.



ience in sewering the houses is concerned, and in preserving the surface of the streets from being dug up in putting in house connections, has this defect, that it supplies nothing for the drainage of catch-basins in the streets.

In many places catch-basins have been needed for many years, but have not been built because there was no sewer in the street to drain them into; an investigation of this matter has been made by this office, in consultation with the City Surveyor's office, and an estimate made of the number of catch-basins and amount of surface drainage needed to make up those deficiencies.

One hundred and thirty-three catch-basins and 7,000 linear feet of pipe sewers and surface drains will give an adequate system of

surface drainage for the public streets of the Back Bay.

The four principal systems of sewers in the Back Bay, whose outlets are at Berkeley, Dartmouth, Fairfield, and Hereford streets, have very little storage capacity, and there have been complaints of flooded cellars during unusually heavy storms which occur at the time of high tide. The overflow outlets of these systems into Charles river should be enlarged, including the tide-gates, and considerable relief would be afforded in this manner.

In Charlesgate East there are twelve catch-basins connected with the sewer, which is a tributary of the Hereford-street system; these should be disconnected, and connected into the covered channel of Stony brook which lies in the same street. A large amount of surface water would be kept out of the sewers by this inexpensive change.

No sewer has been built as yet to drain the houses on the water side of Beacon street, and the sewage of these houses continues to pollute the water of Charles river. A plan has been made for a sewer in the passageway on the bank of the river, but nothing built yet except the connection with the Beacon-street sewer at the corner of Hereford street.

If a boulevard is to be built on the bank of the river, this sewer can be built more cheaply in conjunction with it; if not, it might as well be built at once.

Wherever there is a sewer outlet into a dock the city is periodically called upon to pay damages on account of the shoaling of the dock, caused, it is alleged, by the material thrown into it by the sewer. Where the common sewers are not intercepted, but flow continuously into the docks during dry weather, there is some ground for this claim; but around the city proper, the common sewers have all been tapped by interceptors and the dry-weather flow conveyed away, and nothing flows out of the old outlets except during storms, and then the flow consists of storm water and greatly diluted sewage only.

Yet, nevertheless, in numerous cases it becomes necessary to dredge a dock in which a sewer outlet exists; the city is invited to pay the bill, and if it refuse it has to stand suit. These suits are hard to defend, because it is difficult to make a jury understand the operation of the common sewers as affected by the intercepting system. The most conspicuous facts are, that there is a sewer which sometimes flows into the dock, and that dock has become

partially filled up; and it is impossible to distinguish between deposits caused by a sewer and the ordinary shifting silt of the harbor.

A systematic series of observations should be made, extending over a series of years, to determine the rate at which docks silt up where there is a sewer outlet and where there is none. The subject furnishes a strong argument in favor of the public ownership of docks.

Work done during 1894.

Five thousand three hundred and seventy-seven linear feet of sewers have been built by the city, either by contract or day labor,

and 160 feet by private parties.

In Dover street there is an old wooden box sewer 5×6 ft. which has been in very bad condition for over fifteen years; the illustration shows a section of it thrown over to one side and wrecked. As it did not actually fall in, it was not rebuilt; but when the raising of the Dover-street bridge made it necessary to grade Dover street up, it was not thought judicious to put any more weight upon it without strengthening it. It was therefore decided to line it with masonry or build a brick sewer inside of it. The photograph shows a section of this work. Where the old sewer was found to be tipped over and thrown off line too much, for this it was opened up from the surface and rebuilt in open cut, more piles being driven to furnish a foundation wherever necessary.

A new sewer has been built in Lancaster street, and one is in progress at this time in Merrimae street, which connects with the west side intercepting sewer, and will lower the level of the water

in the Canal-street system of sewers to some extent.

CHARLESTOWN.

The Hoosac Tunnel Dock outlet, a large wooden box sewer, has been repaired, and sewers built in Mishawam and Boyle streets.

The Somerville branch of the Metropolitan sewer having been completed in Arlington avenue, the system of sewers projected in the Alfred-street district may and should now be built.

The connections with the Metropolitan, eleven in number, should also be made this year. There are a large number of old defective sewers, built of slate, wood, and brick, which should be rebuilt, as they are not fit to be connected with the Metropolitan system on account of the quantities of ground water which they admit.

Work done during 1894.

Four hundred and twenty-two linear feet of sewers was built by the city, none by private parties, and nothing requiring special attention.

EAST BOSTON.

Jeffries, Decatur, and Brooks streets outlets should be rebuilt, and the outlet at Dock 13 extended.

Nothing has been done to the Porter-street outlet, and the



MASONRY CONSTRUCTION WITHIN DOVER-STREET SEWER.



sewage escapes along its entire length, and is distributed over the flats.

Repairs on this old box sewer are expensive and ineffectual, as the ice of the succeeding winter strains it apart again. It should be rebuilt of wood, upon a substantial pile foundation, and of such size and form as to serve subsequently as the foundation for a brick sewer. All the ashes collected by the Sanitary Division in East Boston should be hauled to it, to form an embankment to protect the new structure from the ice, and when such embankment has attained the proper size and solidity, the permanent brick sewer may be built.

The Havre-street sewer, between Meridian and Sumner, has not been rebuit, as recommended last year, but should be this year.

Last year's report stated that work was about to be started on an outlet sewer for Leyden street, west of Breed street; this was postponed, and has not been done, but should be built without further delay, as a large number of houses on this street lack sewerage.

The new main sewer in Chelsea street, near Chelsea-street bridge, also mentioned last year, should be built, as it will afford an outlet to a number of neighboring streets.

A connection with the Metropolitan intercepting sewer has been allowed at the corner of Orleans and Gove streets, at the request of this department, and the Orleans-street sewer has been started.

This sewer will do away with the damming up of the sewers at this point, and will convey the storm water from a large section directly to the Porter-street outlet, thereby relieving the overcrowded condition of the sewer in Bremen street to some extent. This relief will be complete when the Porter-street outlet is rebuilt of adequate size.

The building of the Metropolitan intercepting sewers in Bremen and Porter streets has caused some damage to the common sewers in those streets.

When the back filling in these trenches has become sufficiently well settled these sewers will need repairing, and the arch of a portion of the Bremen-street sewer will have to be rebuilt.

The Metropolitan intercepting sewers being now practically completed, connections may be made; the ordinary regulators and sump manholes will have to be put in at each connection, of which there are twelve, which may be built this year, and three more after building 2,500 feet of pipe sewer in Condor, Glendon, and Eagle streets.

Work done during 1894.

Thirteen hundred and twenty-three linear feet of sewers have been built by the city; none by private parties.

Morrison's wharf outlet has been repaired, and a row of piles have been driven along the edge of the wharf as far as the sewer extends to protect it from the action of the ice, by which it has been injured, more or less, every winter in the past.

Eagle-square outlet, which was nearly choked up by the banks of filling near by, has been extended 250 feet, which is sufficient for the present.

The Paris-street sewer, from Wesley to Edgeworth place, has been rebuilt. Many complaints have been received on account of the settlement and breaking down of this sewer.

BRIGHTON DISTRICT.

The main sewers for the systems for the western part of the district—called the Faneuil Valley system—having been built, any streets requiring sewers in this vicinity may now be accommodated. A branch main sewer has just been started on Lake street. This sewer will receive eventually the sewage from a large tract of land in Newton; and as this city is sewered upon a separate principle, it has been found expedient to build the Lake-street sewer upon the same principle, although the remainder of the system is built upon the combined principle, supplemented by relief overflows for storm water into the water-courses at all convenient points.

Hobart street and the streets upon Bigelow Hill may now be

drained.

A sewer should be built in Nonantum street, between Oak square and the Newton line. The sewage from the houses on the west side of the street must at present seep out of cesspools or flow over the surface from privies into the brook at Tremont street.

On Commonwealth avenue everything necessary for drainage of any kind has been built as far as Warren street, except a few catch-basins near the latter street, and except the structures required in that part of the avenue crossing the marshy hollow just west of Cottage Farm station, where the settlement of the filling

has not yet ceased.

The outlet sewer for this whole Commonwealth-avenue system, known as the Salt Creek outlet, from the Boston & Albany Railroad to the Metropolitan sewer, will require strengthening. The soil of the marsh through which it is built is of very light and spongy character; and the covering of this material — which was the only material accessible without considerable expense — has not proved to have sufficient weight to afford the lateral support

to the sewer which is necessary.

The district bounded by Čhestnut Hill avenue, Union street. Washington street, Commonwealth avenue, and Sidlaw road is being cut up into streets by the Westminster Land Company. Part of this district will drain into Union street and Chestnut Hill avenue; and the sewers in these streets will afford but a poor outlet for the new sewers to be built in this district, on account of the fact that they are overcharged now far beyond their capacity by the admission of the water of the brook which flows through this valley. Unless this surface water is excluded from the sewers and restored to the brook channel, it will probably be necessary to sewer this district with an expensive separate system of house sewers and surface drains.

The remainder of the district will drain into Commonwealth avenue, near Chestnut Hill avenue, and eventually into Brookline.

The district between Commonwealth avenue, Washington street, Chestnut Hill avenue, and the Brookline line has many streets laid out by the Aberdeen Land Company. Some of these streets have surface drains, and one street, viz., Englewood avenue, has a sewer built by the city. This whole district drains into Brookline, and must be provided with house sewers and surface drains.

Work done during 1894.

Thirty-two thousand six hundred and sixty-four linear feet of sewers have been built by the city, and 377 feet by private parties.

This includes the mains of the Faneuil Valley system, and the practical completion of the sewers and surface drains of Commonwealth avenue as far as Warren street, and of the outlet sewer for the system.

SOUTH BOSTON.

The main sewer in Dorchester avenue, from its outlet at Fort Point Channel to Broadway, should be rebuilt, the portion between

First street and Broadway being entirely rotten.

The sewer outlets on the southern shore of the peninsula, at N, K, I, and H streets, have all been destroyed by ice. The one at N street should be rebuilt immediately, after the pattern of the outlet at Denny street, Savin Hill. The building of the others may be delayed until the Park Department has deposited part of the filling for the proposed boulevard, which will protect them.

Defective outlets at B and Seventh streets, and at D street, cause trouble in the sewers of the south-western part of the peninsula. A comprehensive plan for uniting these and rebuilding the defective D-street sewer has been prepared by this department. This plan is also a means of draining effectively the depressed part of D street, at the Old Colony Railroad crossing.

The South Boston intercepting sewer has no proper overflow for relief when shut off from the main intercepter by the regulator.

A plan has been prepared for such an overflow sewer upon the location of the old Kemp-street sewer. The sewer in Mercer street should be rebuilt of larger size, to do away with flooding of cellars on Mercer and Yale streets.

Work done during 1894.

Three hundred and fifty-eight linear feet of sewers have been built by the city, and none by private parties. Nothing requiring special mention.

DORCHESTER DISTRICT.

A sewer system is needed for the northern half of the Savin Hill peninsula similar to the system built in the southern half; that is, a separate system of house and storm sewers. The house-sewer system would connect with the Dorchester intercepter in Sydney street.

At Dorchester Lower Mills advantage has been taken of the completion of the Lower Mills main sewer to build sewers in some of the streets; but there are other streets which need sewering, and which may now be sewered, such as River, Monson, and Idaho streets, and parts of Temple, Morton, and Washington streets.

Between Lawrence and Geneva avenues a main sewer will have to be built through private land parallel with Blue Hill avenue, and crossing Stanwood avenue. Geneva avenue, between Wilder street and Washington street, cannot be sewered until this main is built. The Lauriat and Chapman avenues district, also the Nelson and Corbet streets district (sometimes called the Forest-avenue district), continue to call for sewers, and up to the present time, in vain. The difficulty of sewering this district, and the various routes by which it may be done, were very fully discussed in the report of the Street Department for 1892.

In short, it involves a low, level sewer, starting at the Dorchester intercepting sewer and running through Park and West Park streets, cutting through the bounding ridge of the Stony' brook water-shed in tunnel, and costing, for a rough estimate, \$250,000. As any tunnel sewer to reach this district would take several years to build, it was also proposed to erect a small pumping-station, and pump the sewage of this district into the Talbot-

avenue sewer, as a temporary expedient.

A petition was received in 1893 that this scheme be carried out; there does not seem to be any other means of affording sewerage

to this region within a reasonable time.

An effort has recently been made to have a sewer built up Morton street, cutting through the ridge low enough to sewer Nelson and Corbet streets, leaving the rest of the district out. The objections to this plan are the large expense to be incurred for only a partial solution of the problem, and the fact that the sewer would have to be built for a long distance through an uninhabited country where nobody needs it.

A sewer has been projected through Adams and Rosemont streets, to drain all that valley, afford better sewerage to Carlisle street, and make it practicable to build a sewer in Melbourne street, and also incidentally to relieve the overcrowded Centre-street sewer by withdrawing a portion of its flow through

Carlisle street; this important main is badly needed.

Work done during 1894.

Fifteen thousand and seventeen linear feet of sewers have been built by the city, and 17,036 linear feet by private parties. The Dorchester Lower Mills main sewer has been completed, and lateral sewers may now be built throughout the village of Lower Mills.

A sewer is under construction in Geneva avenue, between Bowdoin and Wilder streets, which will afford an outlet for a number of streets between this avenue and Washington street.

ROXBURY DISTRICT.

The Harrison-avenue and Northampton-street sewers are settled so badly as to make it impossible for workmen to have access to them to clean them out, unless a steam-pump should be used to keep the water down; they should be rebuilt.

As these sewers lie upon unusually deep beds of mud, pile

foundations would be very expensive; a form of construction similar in principle to that employed on Fellow street might be used. This Fellows-street sewer was a pipe sewer upon the same kind of a mud bed. It was relaid last year, supported by a wide timber platform having a longitudinal stringer upon each side, which was built up in the trench of strips forming a continuous built-up beam A recent examination showed it to be in good condition, not having settled appreciably under the weight of the back-fill. Harrison avenue and Northampton street require sizes too large for pipe, but the plan could be modified to adapt it to the support of a brick sewer.

The sewers in Halleck and Ward streets should be rebuilt.

The sewer in Huntington avenue, between Rogers avenue and Gainsborough street, which was built in 1882, is in a very dangerous condition, the arch in some cases being flattened to the level of the springing-line; also, the manholes are in a very dangerous condition.

Unless this sewer is attended to very soon it will probably cave in, as the electric cars running on the avenue cause a very noticeable vibration inside the sewer.

In the district bounded by Hammond, Tremont, Lenox streets and Shawmut avenue the cellars are but little above the level of the sewers, and are flooded by the surface water which enters the sewers in storms.

A plan has been prepared for building new house sewers at a lower level, utilizing the existing sewers for surface water, thus developing a separate system for this district; but nothing has been built.

Another district, bounded by Culvert, Tremont, and Davenport streets, and the Providence Division of the New York, New Haven, & Hartford Railroad, is in a similar condition, and a similar plan was worked up for it. The extension of Columbus avenue now cuts through this territory; the plan has been modified to suit the change, and some of the sewers required will be built in constructing that avenue.

There are numerous sources of pollution along the old channel of Stony brook between Huntington avenue and the Roxbury crossing which cannot be removed until pipe sewers are built on each side of the brook channel back of the walls, and in some places in the bottom of the channel itself.

This subject was thoroughly discussed in the report of 1892.

About 3,050 linear feet of pipe sewers will be required; none have been built.

Dorchester-brook sewer has been built from the South bay to the point where it leaves Norfolk avenue, running through private land from Clifton street.

The new brick channel should be extended about 600 feet, as this portion of the old sewer is a stone arched channel, with no covering over the arch, and so small that the floods sometimes crack and lift the arch.

Complaints have been received at various times of floodings in Guild row; a plan was prepared several years ago for extending

the large Vernon-street sewer up to Washington street to remedy the trouble; but it has never been built.

At Notre Dame street there is much trouble from flooding; the sewers here are too small; an overflow into an old water-course now fails to give relief, because of the partial obliteration of the latter.

The extension of Columbus avenue will afford an opportunity to build a relief sewer for this vicinity.

The sewer in Vila street is the main for quite a large territory; it connects with the Metropolitan sewer, but has no overflow. Before any catch-basins can be connected with this sewer or its tributaries it should have a storm-overflow sewer built to connect it with the cover channel of Muddy river in Brookline avenue.

Work done during 1894.

Twenty-two thousand four hundred and forty-seven linear feet of sewers have been built by the city, and 2,807 feet by private parties. A large main sewer is in progress in Massachusetts avenue, east of the Roxbury canal, which will afford sewerage to a large territory bounded by Swett and Magazine streets, Norfolk avenue and Gerard street. In Parker street a brick sewer has been built from Bryant street to Westland avenue, which is low enough to be extended, and furnish an outlet for sewers in the low territory lying between Parker street, Massachusetts avenue, and Westland avenue.

WEST ROXBURY DISTRICT.

The district in the vicinity of South, Anson, and St. Mark streets should be sewered, the outlet sewer to run through private land from South street to Washington street, there to connect with the Roslindale main sewer. It will cross the location of the Providence R.R., and this section at least must be built before the tracks are raised.

Another branch of the Roslindale main sewer should be carried from the northerly of the two intersections of South and Washington streets to the extreme north-westerly point of Florence street, in order to afford sewerage to Florence, Sycamore, Brooks, and Ashland streets and the neighborhood of Mt. Hope Station.

North of Roslindale Village lies the neighborhood of Hewlett and Arundel streets, a swampy region, unsuited to cesspools. Sewers should be built here; the petitions date back to 1886.

At the request of interested citizens the grade of the sewer being built in Maple street, from the main sewer in Centre street, was depressed, and the sewer run through the divide low enough to take a part of the territory lying on the Charles-river side of the ridge. Portions of Weld, Ruskin, Pomfret, Westover, Willow, Corey streets, and Garfield avenue may now be drained into it.

The only other region in West Roxbury calling for special

mention is the valley of the Spring-street brook. This is quite thickly settled, and its sewage pollutes the above-mentioned brook, which flows into Charles river above the point where Brookline, Newton, Needham, Wellesley, and Waltham get their water-supply. A scheme of pumping the sewage of this place back over the ridge into the Roslindale main sewer at Mt. Vernon street has been recommended by this department as a temporary expedient, to last until such time as an intercepting sewer can be built down the valley of Mother brook and the Neponset river to join the Dorchester intercepter at Central avenue. In a recent report by Mr. Jackson, City Engineer, on the drainage of the Charles-river water-shed in West Roxbury, the pumping scheme is condemned, for various good and sufficient reasons, as a permanent solution of the question.

It was not recommended as a permanent solution, but only as a temporary expedient. It appears from the City Engineer's report that it will require about 71 miles of intercepting sewer to be built, at a cost of \$380,000 (exclusive of land damages) to reach Spring street; and will require the concurrent action of Boston, Hyde Park, and Dedham, probably practicable only by action of the Legislature. In view of the length of time likely to elapse before this can be accomplished, it would still seem that the pumping scheme offers the only means of relieving this district within a reasonable Upon the completion of the intercepter the local sewers would all drain into it, and the pumping would be discontinued; the only portion of the system which would then be useless would be the force main; the system of local sewers would be substantially the same as recommended by the City Engineer.

The question of the advisability of building this pumping system depends wholly upon the length of time during which it is likely to be in use, that is, whether this time is likely to be long enough to justify us in incurring the expense of the temporay portions of the scheme; namely, the force main and the pumping plant. This time will be the time which will elapse between the completion of the intercepter by way of the valley of Mother

brook.

Work done during 1894.

Thirteen thousand one hundred and ninety-four linear feet of sewers have been built by the city, and 4,497 feet by private parties. A branch of the Roslindale main sewer has been carried across the tracks of the Dedham Branch R.R. at Highland Station, to form an outlet for Clement avenue, Park and Bellevue and contiguous streets.

MAIN DRAINAGE WORKS.

The amount of sewage handled by this branch of the Sewer Division is increasing quite rapidly, not only by the amount due to the annual increase in the mileage of the common sewers of the city, but by the addition of the systems of the suburban districts in the Charles-river valley. During the last two years the sewer systems of Brookline, Brighton, Newton, Watertown, and Waltham have been added, and the town of Milton, in the Neponset

valley, is looking for accommodation shortly.

The amount of sewage from these districts will increase annually, and unless action is taken very soon towards increasing the pumping capacity of the plant at the pumping-station the pumps will not be able to handle properly the sewage coming to them.

It will take two years to get a new pump built, set up, and in operation, if action in the matter is taken immediately, and the urgency of it can be seen from the fact that even the average daily amount pumped last year is 70% of the capacity of the plant when all the pumps are working, and it is sometimes necessary to shut down a pump for repairs for a week at a time.

A high-level intercepting sewer was included in the original design of this system, to be built when the increase in the amount of sewage should show the necessity for it. It consists of a system of intercepting sewers to be built through Dorchester, Roxbury, and Brighton, that will intercept all the sewage above grade

40 and carry it to the outlet at Moon island by gravity.

Although attention has been called to this in a previous report no action has been taken towards providing for its construction. It should be considered without delay, as it would help relieve the

pumps of the present tax upon their capacity.

The force in charge of the main and intercepting sewers has been taxed to keep up with their work for the last year. The addition of a number of new connections to the system has increased greatly the amount of ironwork to look after, and the points that have to be inspected during every storm. The head-quarters of this force, on Massachusetts avenue, should be put in proper condition. The men have to be on duty regardless of the weather, and the buildings are entirely inadequate for their use and comfort.

At the pumping-station the condition of the plant has been considerably improved since the last report. While, owing to a lack of appropriation, but a small part of the repairs necessary to put the plant in proper working condition have been done, still those that have been made are such that the cost of pumping has been reduced considerably.

The renewals of the valve seats of the pumps have been completed and the water ends of the pumps are in very good condition.

The pump records indicate that less sewage was pumped last year than the year before, but the reverse is the actual case. The discrepancy in the figures is caused by the difference in the slip of the pumps in the two years, it being greater in 1893 than in 1894.

Some of the principal repairs completed are: retubing the boilers; new sleeves in pump No. 1; relining of boxes on beam centres of No. 3 and No. 4, and of cam shaft on No. 3; new feedwater heater and feed pump; new steam-pipe from engine-house to filth-hoist; two new eages and chains at filth-hoist and repairs on hydraulies; re-covering of boilers No. 1 and No. 2, and a part of main steam-pipe.

A few of the repairs that cannot be deferred without liability of

having shut-downs, and the certainty of increased cost of maintenance, are the refitting of the gallery-gates, rebabbiting of main shaft boxes on No. 4 pump, the retubing of reheaters, new valve gear on pumps No. 1 and No. 2, and a new supplementary main steam-pipe. Without the latter the proper repairs cannot be made on the main pipe, as it is continually under a pressure of 100 pounds to the square inch.

The wharf needs reflooring, and should be extended about

seventy feet, as suggested in a previous report.

The sludge tank, which is of wood, is decaying rapidly, and will soon have to be rebuit.

The last test of the tunnel, to determine its condition as regards deposits, gave a coefficient of 115, which corresponds closely to

that obtained a year ago.

The working condition of the plant at Moon island is good, with a few exceptions. The whole of the iron fence around the reservoir, which is set on the stone coping, had to be removed and reset. It is mostly machine-work, and takes considerable time, but is nearly completed.

There has been quite an amount of filling put into the cove, near the outlet, to prevent the nuisance caused by the deposit formed by the discharge. This trouble would be removed if the sea-wall, which is part of the original design of these works, and spoken of in previous reports, were built.

The turbine wheel which works the gallery gates will have to be replaced without delay. The sewage has so acted on the iron

that it is next to useless.

The gates on the outfall sewer at the reservoir will all have to be refitted, as has been done on the discharge gates; but before this work can be done the boat chamber in the outfall sewer, which has been so much needed for other purposes as well, will have to be built.

New hydrants and piping in the reservoir are necessary, the latter having become so thin that breaks are frequent.

CULVERTS.

The city has built numerous culverts during the past year in the Brighton, Dorchester, and West Roxbury districts. In building street culverts the city labors under a great disadvantage, as elsewhere commented upon, from not having control of the watercourse throughout its entire length. In almost every case the bottom of the culvert has to be depressed several feet below the general level of the bottom of the brook in order to obtain a waterway of sufficient size, and, at the same time, to provide for sufficient filling for the roadway over the top of it. The city has no right to enter upon private land and deepen the adjacent portions of the brook channel a corresponding amount. The connections of the culverts with the brook channels at each end are, therefore, necessarily unsatisfactory, and the culverts become settling basins, and would speedily become filled with sand and mud if not cleaned out. Culverts are usually built at those points in the course of the brook where the complaint is loudest of floods caused by the insufficient size of the existing culverts, and the building of an enlarged waterway answers its purpose of freeing the city of the responsibility of the nuisance at this point; but the immediate effect is to transfer the flood to the next insufficient culvert down stream; and a new complaint arises, often accompanied by the allegation that the city is responsible for the damage, on account of having enlarged the up-stream culvert, and thereby let the water flow down more rapidly than it ever had before.

The proper way for the city to proceed, if it had the powers, and if funds were available or the cost were assessable, would be, as a matter of course, to begin at the outlet of a water-course and improve the channel and rebuild the street culverts systematically, always proceeding up stream. Another aspect of this subject deserves attention. Land-owners, in developing their land for building purposes, now proceed to lay out streets or grade those laid out by the Board of Survey, and having satisfied the requirements as to line and grade, obtain their acceptance by the Board of Street Commissioners, having meanwhile made only such provision (often no provision at all) for water-courses that happen to cross the location of their streets as their own judgment and penuriousness may suggest.

As soon as the street is accepted the responsibility for obstructing the stream at the crossing of the new street devolves upon the city, and entails upon it the expense of building a suitable culvert. No street should be accepted by the city until after it has been examined by the Superintendent of Streets, and the provisions have been made for water-courses, if any, have been sanctioned

by him.

Sewer assessments have been made by this division for the year ending January 31, 1894, in accordance with Chapter 402 of the Acts of 1892, and amendments thereto, to the amount of \$154,401.73, and the bills have been deposited for collection with the City Collector.

Bills for sewer assessments, amounting to \$4,047.44, have also been deposited for collection, representing those estates assessed under Chapter 456 of the Acts of 1889 and amendments thereto, which have made connection with the public sewers during the year; making the total amount of assessments deposited for collection, \$158,449.17.

There remain on the books of this division at 5 per cent. interest \$36,422.33, representing the assessments under the Acts of 1889, and amendments thereto, for those estates which have not been connected with the sewers for which they were assessed, and bills for which will be deposited for collection as the connections are made. This sum represents 27.5 per cent. of the total assessments made under those acts.

Entrance fees to the amount of \$2,923.59 have been collected from estates upon which no sewer assessment was ever levied, in accordance with Chapter 36, Section 10, of the Revised Ordinances.

Two thousand one hundred and thirteen (2,113) permits have been issued to drain-layers to connect house drains with the public sewers, or to replace old connections; and the work done under these permits has been inspected and a record of same made on the plans of this division.

The following amendments to the law for the assessment of sewers in the city of Boston have been passed by the Legislature during the year:

[CHAPTER 227.]

AN ACT RELATIVE TO INTEREST ON SEWER ASSESSMENTS IN THE CITY OF BOSTON.

Be it enacted, etc., as follows:

Section 1. Section six of chapter four hundred and two of the acts of the year eighteen hundred and ninety-two is hereby amended by adding at the end thereof the following words: "provided, that interest shall not begin to run upon sewer assessments until after the expiration of thirty days from the completion of the sewer on account of which the assessment is made"—so as to read as follows: Section 6. The provisions of sections sixteen, seventeen, and eighteen of chapter three hundred and twenty-three of the acts of the year eighteen hundred and ninety-one, and acts in amendment thereof shall, so far as applicable, apply to all assessments made under this act: provided, that interest shall not begin to run upon sewer assessments until after the expiration of thirty days from the completion of the sewer on account of which the assessment is made.

SECT. 2. This act shall take effect upon its passage. [Approved April 11, 1894.7

[CHAPTER 256.]

AN ACT RELATING TO ASSESSMENTS FOR THE CONSTRUCTION OF SEWERS IN THE CITY OF BOSTON.

Be it enacted, etc., as follows:

SECTION 1. Section three of chapter four hundred and two of the acts of the year eighteen hundred and ninety-two is hereby amended by inserting in the seventh line, after the word "parcels," the words: "But the number of linear feet of any such parcel which has been assessed for the building of any other sewer shall be reduced by one hundred in determining the number of such feet by which the proportions aforesaid shall be determined," so as to read as follows: Section 3. Said superintendent shall so apportion the said assessable cost to the parcels of land aforesaid that the amount apportioned to each parcel shall bear to the total assessable cost the proportion which the number of linear feet of each parcel on said highway or strip of land bears to the number of such linear feet of all such parcels; but the number of linear feet of any such parcel which has been assessed for the building of any other sewer shall be reduced by one hundred in determining the number of such feet by which the proportions aforesaid shall be determined, and as a lien shall attach to the parcel and to any buildings which may be thereon for such amount, as a part of the tax on such parcel. Said superintendent shall give notice of the amount of every such assessment and the interest thereon to the owner of the parcel liable therefor, forthwith after such amount has been determined.

Sect. 2. This act shall take effect upon its passage. [Approved April 16, 1894.]

Financial Statement.

Balances on hand Jan. 31,	\$1,266 25	\$1,266 25
Expenditures during the year.	\$304,133 40 280 00 2,486 47 1,800 00 1,081 80 361 29 1,600 00 419,607 48	\$731,670 44
Total Credits.	\$304,133 40 280 00 2,486 47 1,800 00 2,38 05 1,600 00 411,600 48	\$732,936 69
Appropriations added during Total Credits, during the the year.	a \$304,133 40 b 1,800 00 c 1,600 00 395,421 92	\$702,955 32
Balances on hand Feb 1, 1894.	\$280 00 2,456 47 2,348 05 591 29 24,275 56	29,981 37
Appropriations.	Sewer Division Sewer between Roslindale and West Roxbury Sewers, Brighton Sewers, Unitels, East Boston Sewers, South Boston Sewers, Ward 23, etc. Surface Drain, Boylston street. Laying Out and Construction of Highways.	

In addition to the above there was expended on account of Paving Division for catch-basins, culverts, and sewers, necessitated by street construction, the sum of \$84,295,49; making a total of \$815,965,93. #320,000 00 18,000 00 a General appropriation.
Less transfers to County of Suffolk.

Plus amount transferred by Auditor January 31, 1895, to pay special drafts.........................

\$302,000 00 2,133 40 \$304,133 40

b Transferred from Street Improvements, Aldermanic District No. 1.

IMPROVED SEWERAGE.

Office salaries Pumping-station, inside . Pumping-station, outside Engines and boilers . Main and intercepting sewers Moon Island	•	•		•	•		•	\$500 00 50,417 89 16,476 69 8,919 07 12,887 22 10,360 20 3,178 32
								\$102,739 39
STONY	-Br	оок	Імря	OVE	ENT.			
Maintenance								\$10,674 08
Retaining-walls								1,274 73
								\$11,948 81
Stables and sheds, Brighton								\$511 00
Stables and sneds, Brighton	٠	•	۰	•	•	•	•	фэтт оо
Yard, Revere street .					a)			\$2,933 05
,								
	Mrc	CELL.	LYTO	A4 U				
	101.13	CELL.	ANEO	US.				
Office expenses, including sal								**********
clerks, and draughtsmen, s								\$21,001 30
Engineering expenses, includ ments, etc.								27,541 70
ments, etc. Current expenses of yards an	d loc	kers			•		•	19,866 93
Current expenses of stables, in	clud	ling c	ost o	f hor	ses, v	ehic	es,	20,000
harnesses, etc		•			\$37	,005	98 }	28,617 33
Less amount earned by depar	tmer	nt tear	ns		8	3,388	65 ∫	· ·
Repairing sewers		•	٠					7,882 78
Cleaning and flushing sewers	•	•	•	•	.*	•		10,184 04 33,701 82
Current expenses of stables, in harnesses, etc. Less amount earned by depar Repairing sewers Cleaning and flushing sewers Cleaning catch-basins Repairing streets	٠			•		•	*	1,894 83
Building, repairing, and clear								1,001 00
not included in the Stony-b								69,421 88
Examining condition of sewer	's an	d cate	eh-ba	sins				2,043 99
Work for departments and	othe	rs, in	clud	ing i	inspec	etion	of	7 000 00
construction of private sew	ers					•		1,638 02 $4,168 37$
Damages and claims		•	•	•	•	۰	•	5,161 23
Holidays		•	•			•	•	15,905 25
Travelling and incidental exp	ense	8 .						5,035 00
construction of private sew House connections Damages and claims Holidays Travelling and incidental exp Repairs of department building Engines and boilers and repairs	ıgs,	stable	s, ar	id ya	rds			2,585 73
								1,598 20
Hardware, blacksmithing, and								10,769 10
Rubber goods, not included e Stock and supplies, not include						•	•	1,696 92 5,814 12
General repairs	ieu e		1616				•	512 60
Inspection of smoke .								955 50
•								
T		1	7 00				. 4	\$277,996 64
Less over credit on water-rat	es c	narge	d off	to s	ewer	cons	struc-	2,471 56
tion	•	٠	•	•	•	•	•	2,111 00
								\$275,525 08

City Proper.

Sewers built between February 1, 1894, and February 1, 1895, by the City, either by Contract or Day Labor.

Remarks		Rebuilding. Old sewer re-	Rebuilding. Old sewer re-		Building of brick sewer inside	Rebuilding. 320.5 ft. of old sewer removed.	44 ft. of old sewer removed. Rebuilding. Old sewer re-	Rebuilding. Old sewer removed.	
1905		\$308 45 394 80	7,553 44	155 66 147 00 364 66	15,985 06	693 90 2,273 98	538 81 1,532 90 483 54	504 51	\$30,936 71
Dimensions and	Material.	12-in. pipe. 18-in. pipe.	2 ft. 6 in.x 3 ft. brick	12-in. pipe. 12-in. pipe. 12-in. pipe.	brick.	12-in. pipe. 18-in. pipe.	12-in. pipe. 2 ft. 6 in.x 3 ft. brick 18-in. pipe.	18-in. pipe.	\$30,936 71
Length in	Feet.	97.04	632.15	64.88 104.17 136.31	447.00	140.36	212.71 168.00 132.87	122.80	2,785.59
Locality.	Between	Milk st. and Crab alley	Causeway st. and Minot st	Chatham st. and Butler row Barton st. and Spring st	South bay and Harrison ave	Atlantic ave. and India sq	Moon st. and North st	Cooper st. and Wiget st	
	Built in	Batterymarch st	Billerica st	Butler sq	Dover st.	India sq	Lewis st	North Margin st	

Sewers built between February 1, 1894, and February 1, 1895, by the City, under Chapter 323 of the Acts of 1891, as amended by Chapter 418 of the Acts of 1892.

Norway st Falmouth st. and Massachusetts ave.	322.44 462.00	12-in. pipe sewer. 6-in. pipe, house		Rebuilt. Old sewer removed. Built by contract.
	87.00	10-in. pipe, C.B.	\$1,561 43	
St. Germain st Dalton st. and Massachusetts ave	.ve 523.69	6 catch-basins. 12-in. pipe, C.B.		
	41.26	drain. drain.	789 25	
		4 catch-basins.		Built by day labor.
	4221.98		\$33,287 39	
48 new catch-basins built and 116 repaired		0	7,122 12	•
			\$40,409 51	
Surface Drains built between February 1, 1894, and February 1, 1895, by the City, either by Contract or Day Labor.	394, and February	1, 1895, by the C	ity, either by	Contract or Day Labor.
Boylston st Exeter st. and Hereford st	1,027.52	12-in. pipe. 10-in. pipe.	The state of the s	
	1,155.41		4	
Sewers built between February 1, 1894, and February 1, 1895, by Private Parties.	ary 1, 1894, and	February 1, 1895,	, by Private	Parties.
Chickering pl Washington st. and Harrison ave		160.41 12-in., pipe.	Ordered by	Ordered by Board of Health.
	-			

Charlestown.

Sewers built between February I, 1894, and Februarg 1, 1895, by the City, either by Contract or Day Labor.

	Rettarks.	Rebuilt.	by Contract or Day Labor.	
		\$1,121 88 4,463 92 \$5,585 80	1895, either	
Dimensions and	Material.	347.12 15-in. pipe.	and February I,	75.00 12-in. pipe.
Length in	Feet.	347.12	ry 1, 1894,	75.00
LOCALITY.	Between	Mishawum st., Ward 4	Surface Drains built between February 1, 1894, and February 1, 1895, either by Contract or Day Labor.	Pleasant st. and Cordis st.,
Lo	Built in	Mishawum st., Ward 4	Surface	Boyle st., Ward 3

East Boston.

Sewers built between February 1, 1894, and February 1, 1895, by the City, either by Contract or Day Labor.

Remarks		Built in 1893. Built in 1893. Rebuilt. New sewer. Just begun. Rebuilt. Built in 1893. Rebuilt. Labor paid for direct by B., R. B., & L. R.R. Co.	1
Cost		\$173 89 2,123 59 167 89 1,949 71 234 00 1,569 22 65 50 726 82 \$7,010 62	\$14,653 71
Dimensions and	Material.	250.30 4 ft. × 5 ft., brick. 214.00 3 ft. × 3 ft., wood 88.00 3 ft. × 3 ft., wood 616.02 18-in., pipe. 12.83 12-in., pipe. 65.15 20-in., iron pipe. 76.60 24-in., iron pipe.	
Length	in Feet.	250.30 { 214.00 { 88.00 { 616.02 { 12.83 65.15 1,322.90	
LITY.	Between	Saratoga and Pope streets Old outlet and 250 feet northerly Saratoga and Chaucer sts Old outlet and end of sea- wall. Wesley and Edgeworth sts Bennington to Saratoga st Over B., R. B., & L. R.R. Tunnel Over B., R. B., & L. R.R.	
LOCALITY	Built in	Byron street, Ward 1 Eagle-square outlet Old outlet an northerly Curtis street, Ward 2 Morrison's dock Orleans street, Ward 2 Paris street Ward 2 Paris street Ward 2 Wesley and Edgy Prescott street, Ward 2 Webster street Webster street, Ward 2 Tunnel Tunnel 14 new catch-basins built and 99 repaired Tangan and 10 Tunnel Tunnel	

Brighton.

Sewers built between February 1, 1894, and February 1, 1895, by the City, either by Contract or Day Labor.

	Remarks.	Contract.	North side, 874.62 ft. built by contract.			North side, 1,464.86 ft. 12-in. pipe built by contract.		
	Cost.	\$ \$1,823 27	4,055 74	8,868 72	933 69	27,364 19	} 6,480 01	4,270 12
Dimensions and	Material.	10 in., pipe. 12-in., pipe.	12-in., pipe.	2 ft. 6 in. × 3 ft. 9 in., brick.	18-in., pipe.	3 ft. 6 in. × 3 ft. 9 in., brick. 2 ft. 4 in. × 3 ft. 6 in., brick. 24-in., pipe. 18-in., pipe.	15-in., pipe. 12-in., pipe.	2 ft. 6 in. × 3 ft., brick.
Length in	Feet.	\$ 566.72 450.70	1,749.52	1,081.80	544.00	1,483.70 104.98 104.98 1.464.86	99.00	610.90
LOCALITY.	Between	Oak sq. and Webster st	209 ft. E. of St. Paul st. and Pleasant st.	B. & A. R.R. and Commonwealth ave.	160 ft. E. of Harvard ave. and Warren st	160 ft. E. of Harvard ave. and 515 ft. E. of Malvern st	515 ft. E. of Malvern st. and Pleasant st	Western ave. and Smith st.
Lo	Built in ,	10	Com'onwealth ave., both sides, Ward 25, No. 6	Com'onwealth ave., outlet in private land, Ward 25, No. 5	Com'onwealth ave., north side, Ward 25, No. 2		Com'onwealth ave., both sides, Ward	Duck lane, Ward 25.

,		1 tide-gate, M. H.	Overflow, tide-gates, and connection	with Met. main sewer.			,		Overflow and tide-gates.				Tiet h	east organi-	Built in 1893. Built in 1893.	
,	\$3,558 18		19 014 53	12,011	1,200 14	,	31,419 47				8,980 02		297 11	00 617	290 14 932 67	\$112,763 80
4	3 ft. 9 in., circular brick. 5 ft. 6 in., circular brick.	5 ft. × 5 ft., wood.	24-in., pipe. 3 ft. 9 in. × 3 ft. 11\frac{5}{2} in., brick.	4 ft. 3 in. X 4 ft.		48-in., iron pipe. 4 ft. 3 in. × 4 ft.	6 in., brick. 3 ft. 9 in. × 3 ft.	11\frac{2}{8} in., brick. 3 ft. \times 3 ft. 2\frac{2}{8} \cdot in.,	brick.	48-in., iron pipe. 3 ft. 9 in. × 3 ft.	4 ft. Cir. brick.	4 ft. 9 in. × 5 ft.	12-in., pipe.		· · · · · · · · · · · · · · · · · · ·	\$112,763 80
	114.46	125.00	766.90	102.00		f 19.00 F 976.35	1,222.01	1,328.24		710.49	42.07	432.24	250.40			17,101.65
	Met. main sewer and Charles river		Parsons st., Ward 25. Met. main sewer and Fan-	euil st			Parsons st. and Oak sq				Faneuil st. and Wash. st			130 ft. south of school and	No. 68 and Wexford	Carried forward.
FANETIL VALLEY	Sewek: Outlet in Parsons st. and private land, Ward 25		Parsons st., Ward 25.		Regulator and sump.		Faneuil st., Ward 25.				Fairbanks st., Wd. 25.		George st., Ward 25.		Market st., Ward 25.	Carried forward

Sewers built between February 1, 1894, and February 1, 1895, by the City, either by Contract or Day Labor. Brighton. - Continued.

The state of the s		And the contract of the contra		The second secon	The second secon
I	LOCALITY.	Leneth	· Dimensions	i	
Built in	Between	in Fect.	and Material.	Cost.	Remarks,
Brought forward North Harvard st., Ward 25	Spurr st. and Western ave.	$\left\{\begin{array}{c} 17,101 \ 65 \\ 15.20 \\ 169.05 \end{array}\right\}$	lō-in., pipe. 24-in., pipe.	\$112,763 80	One sump manhole, one regulator man- lole, and connection with Met, main
St., Ward 25 Rena st., Ward 25	Faneuil st. and Newton and Boston line	$\left\{\begin{array}{c} 294.05 \\ 1,089.73 \end{array}\right.$	15-in., pipe. }	2,838 94	Contract. Built in 1893.
Washington st., Wd.	Fairbanks st. and Foster st.	715.37 362.23 347.90	3 ft. 9 in. × 3 ft. 11g in., brick. 18-in., pipe.	08 062	Built in 1895.
Washington st., Wd	Fairbanks st. and Oak sq.	174.70 24.00 68.44 555.00	12 in., pope. 12 in., iron-pipe. 12-in., pipe. 15-in., pipe.	20,110 11	tide-gate manhole.
Wexford st., Wd. 25.	Market and Hillside st	682.66 491.00 755.38	2 ft. × 3 ft., brick. 15-in., pipe. 12-in., pipe.	3,181 46) Contract.
		22,845.66		\$142,062 30	
59 new catch-basins bu	built			4,484 44	
				\$146,546 74	

Surface Drains and Culverts built between February I, 1894, and February I, 1895, by the City, either by Contract or Day Labor.

		Culvert.	
24-in, pipe. 15-in, pipe. 7 in, X 12 in, wood. 10 in, X 12 in,	wood. 10-in., pipe. 18-in., pipe. 12-in., pipe. 10-in., pipe. 6 ft. 6 in. X 7 ft.,	ft. 6 in. X 7 ft., concrete. 5 ft. x 6 ft., concrete. 6 ft. x 6 ft., concrete. 3 ft. X 3 ft., concrete. 18-in., pipe. 12-in., pipe. 12-in., pipe. 12-in., pipe. 3 ft. X 3 ft. 4 in., stone. 3 ft. X 3 ft. 2 in., stone.	
270.00 904.58 640.03 89.00	204.00 537.20 920.83 1,108.60 507.75	229 80 1,476.00 274.35	9,929.53
270 ft. E. of St. Paul st. and Pleasant st	Brighton ave. and Pleasant	Brighton ave. and Warren st	
Commonwealth ave., Ward 25	Commonwealth ave., Ward 25	Commonwealth ave., Ward 25	Carried forward

Brighton. - Concluded.

Surface Drains and Culverts built between February 1, 1894, and February 1, 1895, by the City, either by Contract or Day Labor.

Domonto	. Including.		Culvert.	Culvert. Rebuilding.	Culvert. Rebuilding.	Culvert. Rebuilding.	
Dimensions and	Material.	929.53 48.72 5 ft. 6 in. × 8 ft.	6 ft. 6 in. × 8 ft.	concrete.	concrete. Double 5 ft. 6 in. X	6 ft., stone.	
Length in	Feet.	9,929.53	45.30	47.20	70.00		10,140.75
LOCALITY.	Between	Brought forward. Fairbanks st., Wd. 25. Near Washington st.	Near Hobart st.	Near Faneuil st	Near Fairbanks st		
Lo	Built in	Brought forward	Faneuil st., Wd. 25 Near Hobart st	Parsons st., Wd. 25	Washington st., Wd. 25 Near Fairbanks st.		

Sewers built between February 1, 1894, and February 1, 1895, by Private Parties.

247.43 12-in., pipe.	129.50 10-in., pipe.	
	129.50	376.93
Cypress road, Ward 25. Westford st Ward	Old dead end of sewer and Westerly branch of street,	
Cypress road, Ward	25	

Severs built between February 1. 1894, and February 1, 1895, by the City, either by Contract or Day Labor. South Boston.

	t.	Kelliarks.	\$338 48 Rebuilt. 13 36 Contract; built in 1893.		
	5		\$338 48 13 36 1,246 89	\$1,598 73 802 64	\$2,401 37
		Material.	163.15 12-in., pipe. 194.80 12-in., pipe.		
	Length in	Feet.	163.15	357.95	
	LOCALITY.	Between	A st., Ward 13 Fourth and Silver sts E st., Ward 13 G and H sts	lt and 16 repaired	
And the second s	To	Built in	A st., Ward 13 Fourth and Silver sts. Est., Ward 13 G and H sts	2 new catch-basins built and 16 repaired	

Dorchester.

Sewers built between February 1, 1894, and February 1, 1895, by the City, either by Contract or Day Labor.

-	метагкз.	Contract. Built in 1893. Much rock. Much rock. All rock. Contract. Built in 1893.		Very much rock.	Considerable rock. Just begun.	11,969 30 Much rock.
100	Cost	\$1,326 21 112 97 112 97 956 84 2,129 94 2,053 47 278 38		$\left. \left. \right\} \ 16,328 \ 00 \right.$	1,068 38 86 36	11,969 30
Dimensions and	Material,	12-in., pipe. 12-in., pipe, 10-in., pipe, 10-in., pipe.		2 ft. 6 in. × 3 ft., brick. 2 ft. × 3 ft., brick.	12-in., pipe. 2 ft. x3 ft., brick.	18-in., pipe. 24-in., pipe. 15-in., pipe. 12-in., pipe.
Length in	Fect.	678.98 242.65 204.85 274.30		599.74	339.25	210.30 734.14 525.55 454.91
· ·	Between	Codman st. and Milton st., Bowdoin st. and Olney st., Mt. Vernon and Grafton sts., Winter and High sts Josephine st, and West-		Dorchester ave. and Washington st	Brookford st, and Dewey st. King st. to Ashmont st Bowdoin st, and Wilder st	
LOCALITY.	Built in	Adams st	DORCHESTER LOWER MILLS TRUNK SEWER,	Private land of A. Churchill { Private land of N. F. Safford } heirs, and Eunice B, Ruggles { Private land of N. F. Safford } heirs, and of F. M. Cain }	Dambe st. Dorchester ave. Geneva ave.	

Contract. Built in 1893. Contract. Built in 1893. Contract. Built in 1893. Contract. Built in 1893.	Contract. Built in 1893.	Contract. Contract. Built in 1893. Day labor. Contract. Built in 1893.	By day labor. Much rock. By contract. Contract. Considerable rock.	Considerable rock,
59 57 59 63 473 48 51 16 2,282 51 642 40	196 29 39 04 1,024 19	2,025 35 23 60 861 07 1,029 03 283 46	5,605 41 608 67. 3,175 46 2,575 67	1,985 04 \$59,310 88
1,889.80 12-in., pipe. 163.40 17-in., pipe. 218.75 10 in., pipe.	121.99 I5-in., pipe.	163.39 12-in., pipe. 328.10 18 in., pipe. 145.63 12-in., pipe.	12-in, pipe. 18-in, pipe. 18-in, pipe. 18-in, pipe. 12-in, pipe. 15-in, pipe. 12-in, pipe.	12-in., pipe.
1,382.30 163.40 218.75	121.99	163.39	57.60 7.20 86.45 86.45 606.30 767.72 767.72 767.72 869.48	802.70
Adams st. and Neponset 1,582.30 12-in., pipe. Allston st. and Washing- 163.40 17-in., pipe. 218.75 10 in., pipe.	Stockton st. and Mora st. (Outlet for Mora st.) Dorchester Lower Mills frunk sewer and San-ford st	Hill st	Cedar and Washington sis., Washington and Cedar sts., Pleasant and Salcombe sts. Sandford st. and River st., Velles ave, and Brent st Rent and Weshington ste	Morson 8t and Dorches- ter Lower Mills main sewer
Freeman st. Faulkner st. Howe st. Harvard st. King st.	Moseley ave	Neponset ave	Sanford st	Temple st

Dorchester. - Continued.

Sewers built between February 1, 1894, and February 1, 1895, by the City, either by Contract or Day Labor.

Domostra	Delliarks.	Contract. Considerable rock.	10 03 Contract. Built in 1893.		
-	Cost:	\$59,310 88 96 49 1,898 44	10 03 604 57	\$61,920 41 4,713 53	\$66,633 94
Dimensions and Material	Dimensions and Material.	12-in., pipe. 15-in., pipe.	289.05 12-in., pipe.		
Length in	Feet.	$\left\{\begin{array}{c} 12,681.24\\ 55.00\\ 280.20 \end{array}\right\}$	289.05	13,305.49	
Locality.	Between	Brought forward Ashmont st. and Dunbar st.,	Sumner st. and Bakersfield st.	built and 15 repaired	
Lo	Built in	Brought forward Washington st	dale ave	41 new catch-basins bu	

Surface Drains built between February 1, 1894, and February 1, 1895, by the City, either by Contract or Day Labor.

Contract of Horace Sias	Much rock.
09.00 6 ft. × 6 ft., wooden.	190.10 18-in, pipe. } 246.15 15-in, pipe. } 17.00 3 ft. × 3 ft. 4 in., stone. 307.50 24-in, pipe.
209.00	
Garbage Yard Public Ground and Water Department Y ard on Gibson st.	Mt. Vernon st Buttonwood and Von Hillern sts Talbot ave Northern ave. and Whithfield st
Garbage Yard	Mt. Vernon st

		· by Contract or Day Labor.					rivate Parties.	Estate of "Ezra H. Baker Farm Associates."		Estate of Joseph I. Stewart.					
6 ft. X 3 ft. 4 in., concrete conduit.		uary I, 1895, by the City, either	4 ft. × 2 ft. 8 in., brick	24-in., pipe.	4 ft. 8 in. X 3 ft. 6 in., con-	crete cuivert.	Sewers built between February 1, 1894, and February 1, 1895, by Private Parties.	12-in., pipe.		12-in., pipe. 18-in., pipe. 15-in nine		12-in., pipe.	12-in., pipe.	12-in., pipe.	
741.50	1,711.25	t, and Febru	13.00	61.00	56.00	130.00	tary 1, 189	156.90	00 000	669.68 910.18		540.55	932.87	960.40	4,566 58
Wheatlandave, and Spencer sts Spencer st str		Culverts built between February 1, 1894, and February 1, 1895, by the City, either by Contract or Day Labor.	Geneva ave Park st. and Shawmut branch O. C. R.R		Affile St Wheatland ave, and Talbot ave.		Sewers built between Febru	Bakersfield st Stoughton and Willis sts	Bellflower st Dorchester ave, and Boston	Bloomfield st Geneva ave. and Green-	Bowdoin-sq., South E. Bowdoin sq. and W.	Bowdoin sq	Commence St Ditson and Arcadia sts	•	Carried forward

Sewers built between February 1, 1894, and February 1, 1895, by Private Parties. Dorchester - Concluded.

-	Memarks.	Estate of Cheever Newhall.	Estate of "Ezra H. Baker Farm Associates."
Dimensions	and Material.		12-in., pipe. 12-in., pipe. 12-in., pipe.
 Length in	Feet.	4,566.58 600.63 496.90 479.24 526.50 228.25 189.25 189.25	880.45 895.20 431.27
LOCALITY.	Between		Pleasant and Bakersfield sts Pleasant and Bakersfield sts Pleasant and Bakersfield sts
	Built in	Brought forward Cottage terrace Gorlam st. Clement st. Greenwood st. Holiday st. Inpestill ave. Intervale st. Brunswick st. Devon st. Magdala st. Malvern st. Malvern st. Mora st. and Private land. Mora st. and Private land. Mora st. and Private land.	Morrill st

Considerable rock. Much rock. Much rock. Much rock. Some rock. Considerable rock.	
×	-
747.13 12-in., pipe. 788.12 12-in., pipe. 543.10 12-in., pipe. 40.15 12-in., pipe. 598.41 12-in., pipe. 280.80 12-in., pipe. 290.50 15-in., pipe.	
747.13 327.80 788.12 543.10 40.15 598.41 280 80 299.50 17.035.52	
Speedwell st Topliff and Barrington sts Stonehurst st Topliff and Barrington sts Barrington st Homes ave. and Bowdoin st Salcombe st Stoughton st. and Cushing ave} Samoset st Welles ave. and Centre st Wentworth st Norfolk and Torrey sts	
Speedwell st Norton st Stonehurst st Barrington st Salcombe st Wentworth st	designation of the control of the co

Roxbury.

Sewers built between February 1, 1894, and February 1, 1895, by the City. either by Contract or Day Labor.

T. C.	renarks.	Ruilf in 1803		Rebuilding. Old sewer re-	a specially designed plat-	Much rock. Built in 1893.	Much rock.	Much rock.	===	Built in 1893.
	2800	\$1,827 19	321 41	200 00	11,044 06	291 12	1,195 78	251 26 1,740 66 2,251 81	2,134 66	555 80 771 97
	Dimensions and Material.	8 18.in., pipe. }	2 12-in., pipe. 2 10-in. X 12-in., wood. }	0 18-in., pipe.		0 12-iu., pipe.	8 12-in., pipe.	1 12-in., pipe. 3 12-in., pipe. 8 12-in., pipe.	7 15-in., pipe.	179.96 12-in., pipe.
Length in	Feet.	417.78	$\left\{\begin{array}{c} 45.00\\ 268.62 \end{array}\right.$	64.00	535.71	50.00	298.88	128.51 574.83 482.58	520.47	179.96
OCALITY.	Between		Massachusetts ave. and Turner st.	St St	notting sower and shout	100 feet westBicknell st. and Parker st.	Homestead st. and Hutch-	End of old sewer near Craw- ford st. and Ruthven st Calumet st. and Sachem st. Sunset st. and Wait st	Harrison ave. and Wash- ington st	Dorr st. and Cedar st
I	Built in	Bartlett court	Caledonia st	Eollowe et	Guild st	Heath st	Harold st	Hillside st	Hunneman st	Newbury sts

	sewerrepairs. Rebuilding. Old sewer re- \$10,042 38 moved.	1,389 45 Nearly all rock.	3,135 02 Nearly all rock.	444 00 All rock.	
1,950 02 Cost shown in		1,389 45	3,135 02	444 00	
871.14 12-in., pipe.	15.00 4 ft. 0 in. × 6 ft. 4½ in., brick. 15.00 4 ft. 0 in. × 4 ft. 2¾ in., brick. 100.00 4 ft. 0 in., circ. brick. 14.00 In tide-gates and sump.	116.75 12-in., pipe. 164.54 2 ft. 6 in. × 3 ft. 0 in., brick. } 25.05 12-in., pipe.	158.81 12-in., pipe.	25.00 12-in., pipe. 57.50 18-in., pipe.	
871.14	214.31 15.00 100.00 14.00	$ \begin{cases} 116.75 \\ 164.54 \\ 25.05 \end{cases} $	158.81	25.00	
Heath st. and existing sewer	Roxbury canal, and 1,600 feet south	Existing sewer, and Hill-side st	Harold st. and Humboldt aveHumneman st. and Eustis	Warren st. and Moreland st. Commonwealth ave. and river.	
Lawn st Marble st	Massachusetts ave	Sachem st	Townsend st	Whiting st	

Sewers built between February 1, 1894, and February 1, 1895, by the City, under Chapter 323 of the Acts of 1891, as amended by Chapter 418 of the Acts of 1892.

\$564 24 Built by contract.	416 43 Contract; built in 1893. Outlet for Parker st. Built by contract.	1
\$564.2	416 4	\$49,531 38
289.00 6-in., pipe, house drain. 43.50 3 catch basins.	419.57 15-in., pipe, sewer.	- 8
289.00	412.57	7,016.33
Beacon st. and Mounfort st.	Parker st, and Huntington ave.	
Arundel st	Bay State road	Carried forward,

Roxbury. - Continued.

Severs built between February 1, 1894, and February 1, 1895, by the City, under Chapter 323 of the Acts of 1891, as amended by Chapter 418 of the Acts of 1892.

	Remarks.	Contract. Built in 1893.	3,144 12 Built by contract,	53 65 Contract. Built in 1893.	Built by contract.	Built by contract.	
	Cost.	\$49,531 38 180 28	3,144 12	53 65	1,520 75	9,267 68	
	Dimensions and Material.	8 in , nine sower	15-in., pipe sewer. 12-in., pipe sewer. 10-in., pipe. C. B. drain. 6-in., pipe, house-drain.	catch-basins.	12-in., pipe sewer. 6-in., pipe house drain. 10-in., pipe C. B. drain.	2 ft. 6 in. X 3 ft., brick sewer. 12-in., pipe sewer. 12-in., pipe C. B. drain. 10-in., pipe C. B. drain.	3 catch-basins.
Length in	Feet.	7,016.33	62.59 988.80 127.00 1,379.00		\$45.33 722.00 60.00	280.41 280.41 370.30 70.87	1,809.00
Locality.	Between		St. Mary's st. and Mount- fort st.		Mountfort st Ivy st. and Audubon road.	Charlesgate West and Brookline ave	
Lo	Built in	Brought forward, Deerfield st.	Ivy st	Miner st.	Mountfort st	Newbury st	_

Built by contract. Heavy old sea-wall removed. Pile foundation.			tract or Day Labor.			(68.			
18,516 18	\$82,163 99 6,267 80	\$88,431 79	either by Con			Private Parti			
2 ft. 6 in. X 3 ft., brick sewer. In overflow manhole. 18-in., pipe sewer. 20-in., iron pipe. 12-in., pipe sewer. 12-in., pipe C. B. drain. 10-in., pipe C. B. drain. 6-in., pipe house-drain. 18 catch-basins.			d February 1, 1895, by the City	15-in., pipe. 12-in., pipe. 10-in., pipe. 12-in., pipe.		Sewers built between February 1, 1894, and February 1, 1895, by Private Parties	12-in., pipe.	12-in., pipe.	
1,105.40 13.67 163.00 7.00 1,189.41 385.93 346.82 1,794.60	19,128.39		1, 1894, an	$\left\{ \begin{array}{c} 731.43 \\ 1,600.99 \\ 413.00 \\ 573.61 \end{array} \right.$	3,319.03	ebruary I,	652.25	186 97	8:0.22
Parker st Huntington ave. and West-land ave.	37 new catch-basins built and 149 repaired		Surface Drains built between February 1, 1894, and February 1, 1895, by the City, either by Contract or Day Labor.	Commonwealth ave Brookline ave. and Essex st Shirley st Norfolk ave. and George st		Sewers built between F.	Abbotsford st Harold st. and Walnut ave.	0 0 0 0 0	Carried forward,

Sewers built between February 1, 1894, and February 1, 1895, by Private Parties. Roxbury. - Concluded.

	Remarks.	Temporary drain.
The state of the s	Cost.	
	Dimensions and Material.	839.22 411.47 471.47 12-in., pipe. 296.46 12-in., pipe. 152.48 12-in., pipe. 230.50 12-in., pipe. 41.32 12-in., pipe. 41.32 12-in., pipe. 9 in. X 12 in., wood.
Length in	Feet.	\$39.22 411.47 671.63 296.46 152.48 230.50 41.32 163.78
Locality.	Between	Humboldt ave. and Elm Hill ave. Massachusetts ave. and Allerton st. End of old sewer and Fenno st. End of old sewer and Fenno st. End of old sewer and Caledonia st.
I	Built in	Brought forward, Homestead st Lansdown st Mountfort st Oswald st Rockland st Turner st

West Roxbury.

Severs built between February 1, 1894, and February 1, 1895, by the City, either by Contract or Day Labor.

Domoska	Ivelliai no.	Contract; built in 1893. Contract. Contract; built in 1893. Contract: built in 1893.	1,687 56 Contract Some rock.	Very much rock. Contract; all rock. Contract: Duilt in 1893.		Extra expenses in going under old fire reservoir. Much water encountered.	
	1800	\$470 13 610 40 16 92 59 12	3 1,687 56	4,999 67 2,411 16 2,422 28 43 70		} 5,193 43 3,076 67	\$29,911 13
Dimensions and	Material.	341.08 12-in., pipe.	15-in., pipe. 12-in., pipe.	15.in., pipe. 15-in., pipe. 12-in., pipe.	1,100.00 12-in., pipe. 680.00 15-in., pipe.	49.15 2 ft. × 3 ft., bræk. 299.60 15-in., pipe. 1,189.65 12-in., pipe.	
Length in	Feet.	341.08	317.40 272.35	\$10 35 \$72.75 1,197.00	{ 1,100.00 680.00	49.15 299.60 1,189.65	6,129.33
Locality.	Between	Park st. and Stratford ave.	(March ave, and Private) st. below Mayfield st.) and existing sewer	Lakeville pl. and Robin- wood ave	Centre st. and Weld st	Centre st. and Pleasant st. Pleasant st. and Garfield ave	
Lo	Builtin	Albano st	Bellevue st	Centre st		ROSLINDALE AND W. R. TRUNK SEWER. Mt. Vernon st Mt. Vernon st	Carried forward

West Roxbury. - Continued.

Sewers built between February 1, 1894, and February 1, 1895, by the City, either by Contract or Day Labor.

Remarks.			Contract.	Just begun.	Built in 1893.	Some rock. Built in connection "Com. Relief Unemp'd."	Contract; considerable rock.	Contract.	Contract . Juilt in 1893	Contract.	Much rock.		
Cost.		\$29,911 13	510 82	1,626 77	91 71	0 067 19	0,201	915 44	3,571 39	00 066	1,655 98	\$56,620 99 1,024 75	\$57,645 74
Dimensions and	Materal.		12.in., pipe.	24-in., pipe.		24-in., pipe. 15-in., pipe.	15-in., pipe.			12-in., pipe.	12-in., pipe.		
Length	in reet.	6,129.33	251.43	86.00		749.73	467.59	491.30	298.14	350.88	271.52	12,690.89	
LOCALITY.	Between	Woon Onivio et and 960	feet S. E	ave.	ייייי מוומ די מוומ זייייי	May st. and Avon st	May st. and Avon st	Avon st. and town line of Brookline	Roslindale main sewer (so called) and Clement ave.	Atherton st. and Metro-politan ave	Wenham st. and Wachu- sett st		
Lo	Built in	Brought forward	•	6 The Darkway?	Pond st.	Pond st	Pond st	Pond st	Private land and Stratford ave	Washington st	Yale st	13 new catch-basins	

Surface Drains built between February 1, 1894, and February 1, 1895, by the City, either by Contract or Day Labor.

180.50 15-in., pipe.	18-in., pipe. 10-in., pipe.	10-in., earthen pipe. 10-in., iron pipe.	10-in., earthen pipe. 10-in., iron pipe.	10-in., earthen pipe. 12-in., earthen pipe.	2 ft. 8 in. × 2 ft. 1 in., brick conduit. 18-in., pipe.	
180.50	4.00 { 13.00	24.00 60.00	24.00 24.00	49.00 3.00	8.17	503.17
and Arborway conduit and Orchard st	cor. Woodlawn st	cor. Canterbury st	cor. Ashland st	cor. Walkhill st	Hyde Park ave. and Stony-brook conduit	
Arborway and Centre st	Hyde Park ave	Hyde Park ave	Hyde Park ave	Hyde Park ave	Overflow drain	

Culverts built between February 1, 1894, and February 1, 1895, by the City, either by Contract or Day Labor.

,			
			_
.			
	ouble stone		-
	50.75 20-in., pipe. 30.10 2 ft. X 3 ft., double stone culvert.		
		80.85	
	Montview st Kirk and Corey sts Sycamore st Hawthorn and Ashland sts.		
	Montview st		

West Roxbury. - Concluded.

Severs built between February 1, 1894, and February 1, 1895, by Private Parties.

Remarks.		J. W. Bowers, contractor, for private parties. Very much rock.
Length in Directions and Meterical	Timenstons and material.	1,166 49 12-in., pipe. 313 15 24-in., pipe. 647 96 15-in., pipe. 371 96 12-in., pipe. 450 15 12-in., pipe. 367 18 12-in., pipe.
Length in	Feet.	1,166 49 313 15 647 90 1,180 50 371 96 450 15 367 18 4,497 33
Locality.	Between	Rutledge and Oriole sts Stratford ave. and Park st. Clement ave. and 64 ft. south of Oriole st
Lo	Built in	Bellevue st. Clement ave. Park st. Rutledge st. Wren st.

Work done for and paid by Paving Division, including the following Class of Work: Building and Repairing Culverts, Surface Drains, Catch-Basins, and Sewers.

Alderson and District No. 1					#2 0F0	0.0
Aldermanic District, No. 1.	•	•	•		\$2,370	
Aldermanic District, No. 2.	•	•	•	٠	1,173	
Aldermanic District, No. 3.		•			77	
Aldermanic District, No. 4.			•		479	
Aldermanic District, No. 5.					92	34
Aldermanic District, No. 7.					215	52
Aldermanic District, No. 8.					581	91
Aldermanic District, No. 9.					4,225	75
Aldermanic District, No. 11					2,013	20
Aldermanic District, No. 12					217	15
Street Improvements, Wards 1	and a	2 .			2,791	92
Street Improvements, Ward 3					16	
Street Improvements, Ward 5					308	19
Street Improvements, Ward 6					681	20
OI IT I THE	^•			· ·	75	
Street Improvements, Wards 7		3	•	•	151	
Street Improvements, Ward 8	and	<i>J</i> 4	•	•	867	73
Street Improvements, Wards 9	and	10	•	•	525	64
Street Improvements, Ward 10	anu .	10	•	•	785	
Street Improvements, Ward 10	•	•	•	•	124	26
Street Improvements, Ward 12	•	•	•	•	25	
Street Improvements, Ward 14 Street Improvements, Ward 15	•	•	•	•	18	
Street Improvements, Ward 15	7 and	10	•	•		77
Street Improvements, Wards 1	and	. 10 . aa	•	•	1,313	
Street Improvements, Wards 19) and	24	•	•		22
Street Improvements, Ward 20		0.5	•	•		
Street Improvements, Wards 23		25	•	•	1,514	
Street Improvements, Ward 24		٠	•	•	7,908	87
Commonwealth ave., Construct	ion	•	•	•	46,400	
Washington st., Ward 25.	•	•	•	•	3,298	
Ruth-st. Extension	•	•	•	•	109	
Lewis-st. Extension				•	114	
Newport st					109	
Mill st					131	10
Thetford st					9	
Millet st					545	
Talbot ave					3,002	04
Blue Hill ave., Paving .					439	79

\$84,295 49

RECAPITULATION.

SEWERS.

			D	12 W EIG	· •			
City Proper					\$33,28	7 39		
Charlestown					1,12			
Brighton .					142,06			
East Boston					7,01			
South Boston			•		1,59	8 73		
Dorchester.				•	61,92	0 41		
Roxbury .					82,16			
West Roxbury					56,62			
·							\$385,786	31
			CATC	H-BAS	INS.			
City Proper					\$7,12	2 12		
Charlestown					4,46			
Brighton .					4,48	4 44		
East Boston					7,64	3 09		
South Boston					80	2 64		
Dorchester.					4,71	3 53		
Roxbury .					6,26			
West Roxbury					1,02	4 75		
· ·							36,522	29
Improved Sewe	rage	main	tenan	ce			102,739	39
Stony Brook In	prov	remen	t.				11,948	81
Building stables	s and	l shed	ls, Br	ighton			511	00
Yard, Revere st	t.						2,933	05
Miscellaneous							275,525	08
							\$815,965	93

Of the above, \$2,883.58 was for streets resurfaced by Paving Division.

Summary of Sewer Construction for the Twelve Months ending January 31, 1895.

DISTRICT.	Built by the City, by Con- tract or Day Labor.	Built by Private Parties.	Total Length built during the 12 Months ending Jan. 31, 1895.
	Feet.	Feet.	Feet.
City	5.377.39	160.41	5,537.80
Charlestown	422.12		422.12
East Boston	1,322 90		1,322.90
Brighton	32,664.19	376.93	33 041.12
South Boston	357.95		357.95
Dorchester	15,016.74	17,035.52	32.052.26
Roxbury	22,447.42	2,806.86	25,254.28
West Roxbury	13,194.06	4,497.33	17,691.39
Total	90,802 77	24,877.05	115.679.82

226 catch-basins built.

445 "repaired.

21 manholes built.

249 " repaired.

1,125,151 linear feet of sewers flushed.

655.30 cu. yds. of material removed from sewers.

6.913 catch-basins cleaned.

19,652.55 cu. yds. of material removed from catch-basins.

2,646 feet of culverts built.

245 " repaired.

There are now 384.72 miles of sewers in charge of the Sewer Division.

The amount expended by this division during the twelve months ending January 31, 1895, including the amount spent under special appropriations, was \$815,965.93.

The items of expenditure are shown in the financial statement.

Schedule of Sewers built to Date in the City of Boston.

Wards.	Feet.	Wards.	Feet.	
1	81,717	14	75,777	
2	42,916 $31,794$	15	$\frac{48,336}{31,626}$	
4	42,102	17	42,765	
5	40,018 45,945	18	59,573 47,304	
7	37,032	20	106,987	
9	18,636 27,247	21	133,218 124,476	
10	38,382	23	191,434	
11	76,431 42,146	24	324.665 148.892	
13	52,654	20	<u></u>	
Intercep	ting sewers		1,912,073	362.13 miles. 22.59 "
	Total			384.72 miles.

Fall of Rain and Snow in inches at South Yard, Albany Street, in twelve months ending January 31, 1895.

Day.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	January.
1 2	.17				.19 .04 .14	.18				.46	.46	
6 7 8			.13	.40	.12			.25	.28			.42
9	.28	,	1.21						1.27	.68	.57	1.18
14 15 16	.86	.19	1.04				.25	.08	1.12	.13		.02
17 18 19 20								1.69		.09		.14
21			.17			.46 1.12						.22
25	.19	.01							1.36		.19 2.33	1.09
29 30 31		.24		.65					.59	.62		.17
Totals	2.98	.99	3.50	4.03	.83	3.22	3.18	2.24	5.22	3.19	4.34	3.88

Note. — Total for twelve months, 37.6 inches.

Sewer Department-Pumping-Station.
Report of Pumping done from February 1, 1894, to January 31, 1895.

	Rainfall.	2.69	16.	1.92	3.57	.97	3.04	2.19	1.92	5.32	3.00	3,35	3.25	32.13
ni 7	Daily average dut ftlbs, per 100 coal used.	79,478,956	78,744,168	83,836,982	84,571,863	87,217,796	77,225,292	81,507,920	79,184,798	75,856,512	64,244,437	74,327,613	70,314,642	78,042,582
ai	Daily average lift	35 8	35.64	35.49	35.82	36.33	35.49	31.78	35.91	35.56	35.21	35.36	35.79	35.57
sed.	Gallons pumped p	2,677	2,640	2,822	2,821	2,868	2,600	2,800	2,635	2,548	2,180	2,512	2,348	2,621
ртв	Per cent, of ashes	11.5	9.5	1.7	8.4	ಹಿ	00	1- t-	7.1	7.2	7.4	6.9	7.3	8.1
spur	Daily average pou	33,900	30,121	27,994	22,016	20,253	22,597	22,898	22,507	25,955	34,320	29,397	36,561	27,376
suol	Daily average gall	90,735,775	79,520,027	79,017,089	62,110,520	58,097,241	58,753,099	64,120,104	59,302,152	63,123,825	74,824,395	73,835,866	85,827,917	71,022,334
	Total gallons	2,540,601,708	2,465,120,849	2,370,512,662	1,925,426,118	1,742,917,224	1,821,346,066	1,987,723,235	1,779,064,578	2,049,838,576	2,244,731,855	2,288,911,842	2,660,665,426	25,876,860,139
Engine 4.	Gallons pumped.	965,167,560	1,026,849,420	1,035,546,300	916,033,572	860,549,508	688,561,092	924,694,920	926,894,520	950,142,600	975,871,152	1,046,757,492	1,057,703,040	52 11,374,771,176
EN	.omit gaiqaanA	II. M. 648 50	714 28	717 05	665 50	90 029	522 30	680 02	717 05	200 00	694 53	726 53	735 10	
Engine 3.	Gallons pumped.	996,104,088	1,077,377,616	1,023,797,052	961,570,368	919,838,898	807,290,424	960,918,948	806,351,364	910,891,584	348,399,720	909,713,952	1,061,430,516	18 10,732,634,248 8,192
Enc	Pumping time.	H. M. 663 40	736 55	711 35	710 33	681 38	624 23	724 44	651 11	694 40	257 48	614 23	732 43	7,836
Engine 2.	Gallone pumped.	447,416,732	339,153,713	311,169,310	47,822,178	12,556,918	175,321,272	32,578,619	20,189,864	75,629,228	704,876,908	148,816,164	383,814,983	35 2,699,345,889
ENG	Pumping time.	H. M. 320 30	246 25	222 45	34 20	10	122 05	23 20	14 10	01 10	499 35	102 50	266 25	
Engine 1.	Gallons bumped.	131,913,328	21,740,100			972,182	150,173,278	69,530,748	25,628,830	113,175,169	215,584,075	183,624,234	157,716,887	1,079,058,831 1,916
E	Pumping time.	H.M. 94 05	15 45		•	20	111 20	49	19 30	85 20	160 10	142 15	121 12	799 27
	•	February	March	April	May	June	July	August	September .	October	November	December	January	

The following table shows the amounts of sludge received in, and removed from, deposit sewers each month from February 1, 1894, to January 31, 1895:

Months.							Receiv	ved.	R	emoved	١.
February			۰			612	cubic	yards.	394	eubie	yards.
3.5 1						475	6 G		478	6.6	66
April						338	6.6	6.6	400	6.6	6.6
May						579	66	6.6	477	66	6.6
June						558	4.4	6.6	558	6.6	66
July	٠					927	6.6	6.6	711	6.6	6.6
August	٠			٠		864	6.6	4.6	711	h 6	6.6
September .						549	6.6	6.6	711	66	6.6
October						821	6.4	6.6	632	6.6	6.6
November .		٠				344	6.6	6 +	ភភភភ	6.6	6 6
December .						460	6.6	6.	557	5.6	6.6
January, 1895		٠				517	6.	6.6	398	6.	4.6
								-			
					7	7,044			6,582		

PROPERTY IN CHARGE OF THE SEWER DIVISION.

Sewer yard, with buildings, at 678 Albany street.

Sewer yard, with building, on North Grove street.

Sewer yard, on Gibson street, Dorchester, with buildings. This is Gibson School-fund land. The buildings were erected by the Sewer Department.

Sewer vard, with shed, on Boylston street, Jamaica Pláin.

Small lot of land on Stony brook, corner of Centre street, Ward 21.

Gatehouse on Stony brook, Pynchon street, built in 1889.

Sewer yard, with buildings, on Rutherford avenue, Charlestown.

Sewer yard, with buildings, corner Paris and Marion streets.

Sewer yard, with buildings, on East Chester park, near Albany street.

A small shed on Cypress street, Ward 9, on land hired by the city.

Sewer yard, with buildings, on Western avenue, Ward 25.

Sewer vard, with buildings, on Revere street, City.

Summary of Sewer Construction for Six Years.

	building of some construction for single	on agendo			The state of the s	The state of the s
1	1889.	1890.	1891.	1892.	1893.	1894.
	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.
Built by city, by contract or day labor	30,003.03	24.200.25 17,218.10	59,250.18 20,714.24	71,318.46 22,566.73	66,400.85	90,802.77
Total number of feet built	43,194.48	41,418.35	79,964.42	93,885.19	89,237.94	115,679.82

\$11,969 30

	Fane	euil	Stre	et.			
Labor							\$16,181 44
Labor							7,234 18
Cement, 1,483 bbls.							1,853 75
Sand, 60 double loads							117 45
Manhole frames and co		18)					150.01
Manhole steps, 75.		.)		•	•		172 21
Teaming							1,166 00
Lumber, 18,407 feet							293 80
Pipe							546 48
Trench-machine hire							970 83
Engine-hire							575 00
Blacksmithing and hard	dware						236 50
Profiles, centres, etc.							501 31
Tide-gates							349 40
Fuel and oil							437 23
Miscellaneous supplies							117 80
Water							471 57
Water-pipe							194 52
P.P.							
							\$31,419 47
Sin	nnd.	T am	wh or	e San	rer		
	e and		g(h, o)	f Sev	ver.		
12.60 feet 48-in., iro	n pipe						
12.60 feet 48-in., iro 710.49 feet 3 ft. 9 in	n pipe						
12.60 feet 48-in., iro 710.49 feet 3 ft. 9 ir 42.07 feet 4 ft. cir. 1	on pipe n. × 3 brick.	ft.	11§ in	ı., br	ick.		
12.60 feet 48-in., iro 710.49 feet 3 ft. 9 ir 42.07 feet 4 ft. cir. 1 432.24 feet 4 ft. 9 ir	on pipe o. × 3 brick. o. × 5	ft.	11§ in	ı., br	ick.		
12.60 feet 48-in., iro 710.49 feet 3 ft. 9 ir 42.07 feet 4 ft. cir. 1	on pipe o. × 3 brick. o. × 5	ft.	11§ in	ı., br	ick.		
12.60 feet 48-in., iro 710.49 feet 3 ft. 9 ir 42.07 feet 4 ft. cir. 1 432.24 feet 4 ft. 9 ir	on pipe 1. × 3 brick. 1. × 5 1. tes.	ft.	11§ in	n., br	ick.		
12.60 feet 48-in., iro 710.49 feet 3 ft. 9 ir 42.07 feet 4 ft. cir. 1 432.24 feet 4 ft. 9 ir Overflow and tide-gr	on pipe on × 3 brick. on × 5 otes.	ft.	$11\frac{5}{2}$ in $0\frac{1}{4}$ in .	ue.	ick.		\$7.775.03
12.60 feet 48-in., iro 710.49 feet 3 ft. 9 ir 42.07 feet 4 ft. cir. 1 432.24 feet 4 ft. 9 ir Overflow and tide-ge	on pipe $1. \times 3$ brick. $1. \times 5$ ates.	ft.	$11\frac{5}{2}$ in $0\frac{1}{4}$ in .	n., br	ick.	*	\$7,775 03 1 141 95
12.60 feet 48-in., iro 710.49 feet 3 ft. 9 ir 42.07 feet 4 ft. cir. 1 432.24 feet 4 ft. 9 ir Overflow and tide-gr	on pipe 1. × 3 brick. 1. × 5 ates. Gene	ft.	11§ in 0¼ in. Aven	ue.	ick.		1,141 25
12.60 feet 48-in., iro 710.49 feet 3 ft. 9 ir 42.07 feet 4 ft. cir. 1 432.24 feet 4 ft. 9 ir Overflow and tide-gs Labor Bricks, 103,750 . Cement, 228 bbls	on pipe on × 3 brick. on × 5 ates. Gene	ft.	11§ in 0¼ in. Aven	ue.	ick.	•	1,141 25 285 00
12.60 feet 48-in., iro 710.49 feet 3 ft. 9 ir 42.07 feet 4 ft. cir. 1 432.24 feet 4 ft. 9 ir Overflow and tide-ga Labor Bricks, 103,750 . Cement, 228 bbls Sand, 73½ double loads	on pipe on × 3 brick. on × 5 ates. Gene	ft.	11§ in 0¼ in. Aven	ue.	ick.	•	1,141 25 285 00 132 30
12.60 feet 48-in., iro 710.49 feet 3 ft. 9 ir 42.07 feet 4 ft. cir. 1 432.24 feet 4 ft. 9 ir Overflow and tide-ga Labor Bricks, 103,750 , Cement, 228 bbls Sand, 73½ double loads Gravel, 12 double loads	on pipe on × 3 brick. on × 5 ontes. Gene	ft.	11§ in 04 in. Aven	ue.	ick.	•	1,141 25 285 00 132 30 18 15
12.60 feet 48-in., iro 710.49 feet 3 ft. 9 ir 42.07 feet 4 ft. cir. 1 432.24 feet 4 ft. 9 ir Overflow and tide-ga Labor Bricks, 103,750 . Cement, 228 bbls Sand, 73½ double loads Gravel, 12 double loads M. H. frames and cove	on pipe on × 3 brick. on × 5 ontes. Gene	ft.	11§ in 04 in. Aven	ue.	ick.	•	1,141 25 285 00 132 30
12.60 feet 48-in., iro 710.49 feet 3 ft. 9 ir 42.07 feet 4 ft. cir. 1 432.24 feet 4 ft. 9 ir Overflow and tide-ga Labor	on pipe on × 3 brick. on × 5 ontes. Gene	ft.	115 in 04 in. Aven	ue.	ick.	•	1,141 25 285 00 132 30 18 15 66 50
12.60 feet 48-in., iro 710.49 feet 3 ft. 9 ir 42.07 feet 4 ft. cir. 1 432.24 feet 4 ft. 9 ir Overflow and tide-ga Labor	on pipe on × 3 brick. on × 5 ontes. Gene	ft.	11§ in 04 in. Aven	ue.	ick.		1,141 25 285 00 132 30 18 15
12.60 feet 48-in., ire 710.49 feet 3 ft. 9 ir 42.07 feet 4 ft. cir. 1 432.24 feet 4 ft. 9 ir Overflow and tide-gr Labor Bricks, 103,750 . Cement, 228 bbls Sand, 73½ double loads Gravel, 12 double loads M. H. frames and cover Powder Fuse Caps	on pipe on × 3 brick. on × 5 ontes. Gene	ft.	115 in 04 in. Aven	ue.	ick.		1,141 25 285 00 132 30 18 15 66 50 154 90
12.60 feet 48-in., ire 710.49 feet 3 ft. 9 ir 42.07 feet 4 ft. cir. 1 432.24 feet 4 ft. 9 ir Overflow and tide-gr Labor Bricks, 103,750 Cement, 228 bbls. Sand, 73½ double loads Gravel, 12 double loads M. H. frames and cover Fuse Caps Teaming	on pipe a. × 3 brick. a. × 5 ates. Generally series.	ft.	115 in 04 in. Aven	ue.	ick.	•	1,141 25 285 00 132 30 18 15 66 50 154 90 154 50
12.60 feet 48-in., ire 710.49 feet 3 ft. 9 ir 42.07 feet 4 ft. cir. 1 432.24 feet 4 ft. 9 ir Overflow and tide-gr Labor Bricks, 103,750 . Cement, 228 bbls Sand, 73½ double loads Gravel, 12 double loads M. H. frames and cove Powder Fuse Caps Teaming Lumber, 9,434 feet	on pipe a. × 3 brick. a. × 5 ates. Gene a. · · · · · · · · · · · · · · · · · ·	ft.	115 in 04 in. Aven	ue.	ick.	•	1,141 25 285 00 132 30 18 15 66 50 154 90 154 50 146 22
12.60 feet 48-in., ire 710.49 feet 3 ft. 9 ir 42.07 feet 4 ft. cir. 1 432.24 feet 4 ft. 9 ir Overflow and tide-gr Labor Bricks, 103,750 Cement, 228 bbls. Sand, 73½ double loads Gravel, 12 double loads M. H. frames and cover Fuse Caps Teaming	on pipe a. × 3 brick. a. × 5 httes. Gene c	ft.	115 in 04 in. Aven	ue.	ick.	•	1,141 25 285 00 132 30 18 15 66 50 154 90 154 50

Size and Length of Sewer.

700.10 feet 2×3 ft., brick. 734.14 feet 24 in., pipe.

210.30 feet 18 in., pipe.

525.55 feet 15 in., pipe.

454.91 feet 12 in., pipe.

Pond Street, May to Avon.

W. T. Davis	s, eoi	atrae	tor						\$5,502	73
Iuspection									378	50
Cement, 74	bbls.								88	25
M. H. frame							•		79	69
Teaming									21	50
Pipe .						•			1,667	37
Fuel and oil								•	416	00
Profiles, cen	tres,	etc.		٠			•		41	26
Water .						•			255	07
Resurfacing	stree	et by	Paving	; Di	vision	•	•		928	60
									\$8,967	13

Size and Leigth of Sewer.

80.77 feet 24 in., pipe. 749.73 feet 15 in., pipe.

Mt. Vernon Street, Centre to Pleasant.

Labor				\$2,539	10
Bricks, 70,500 .			•	846	00
Cement, 245 bbls				275	60
Sand, 39 double loads				43	46
Gravel, 4 double loads	•			4	32
Teaming				376	25
Lumber, 3,000 feet			•	48	75
Pipe				143	20
Trench-machine hire				287	60
Engine-hire		•	•	172	50
Fuel and oil				176	95
Blacksmithing .				218	50
Miscellaneous supplies				61	20
				\$5,193	43

Size and Length of Sewer.

49.15 feet 2 ft. \times 3 ft., brick. 299.60 feet 15 in., pipe.

Dover Street.

Labor					\$12,052	64
Bricks, 83,000 .					830	00
Cement, 422 bbls						
Sand. 102 double los						
Gravel, 38 double los	ads.			•	67	50
M. H. frames and co	vers, 2	à.				
M. H. steps, 84					66	32
Castings to order)				

Carried forward,

\$8,152 90

Brought forwa	rd.							\$13,807	81
Teaming . Lumber, 54,800 fe							٠	736	
Lumber, 34,800 fe	et							511	
Pipe Profiles, centres, e								61	12
Profiles, centres, e	te.							100	67
Pile driving . Blacksmithing Fuel and oil								165	0.)
Blacksmithing								87	66
Fuel and oil								98	11
Granite curbing						•		50	00
Miscellaneous supp	olies a	nd ha	ardwa	re			٠	367	11
								\$15,985	06
	Size	and	Lengt	h of	Sewer	r.			
442 feet 3 ft. 4 i									
412 1000 0 10. 1	111.	1 11.	O III.	OTICI	A 0				
	Was	ssach	nsett	s Av	enne				
Lahor		3,500011		77 TE 4	CHUC	•		\$7,176	40
Labor Bricks, 52,650			•					526	
								198	
Cement, 165 bbls. Sand, 47 double lo	ads.							84	
Converd 20 double	Loada						·	48	
Teaming . Lumber, 30,362 fe Pipe Granite . Profiles, centres, e	·							916	
Lumber, 30,362 fe	et			•	•	9		438	
Pine								7	
Granite .								50	
Profiles, centres, e	etc.	Ž				Ĭ		168	
Fuel and oils					Ĭ	Ĭ	i	33	
Fuel and oils Blacksmithing		į						8	
Miscellaneous sup	plies							135	
Ironwork .	1,,,,,,							250	
								\$10,042	
	Size	and	Leng	th of	Sewe	r.			120/198
214.31 feet 6 ft									
15 feet 4 ft. ×					. •				
100 feet 4 ft. ci	4 10. 4	ak m.	, oric.	15. •					
Tide-gate chamb			nn						
1 ide-gate chami	er an	u sun	nb.						
C	ommo	n we	alth-	aveni	10 O1	ntlet.			
					u 0 0	au i U i		\$5,590	57
Labor Bricks, 110.250 Cement, 302 bbls. Sand, 12 double ld M. H. Frames and M. H. steps, 100 Teaming . Lumber, 34,451 fe							•	1,212	
Cement, 302 hhls								356	
Sand. 12 double lo	ads							23	
M. H. Frames and	l cove	rs. 6						47	
M. H. steps, 100		,						55	
Teaming								305	
Lumber, 34,451 fe	et							562	
2.000001, 01,101 10									00

Carried forward,

Brought forward,							\$8,152	90
Pipe							118	
Profiles, centres, etc.							51	66
Trench-machine hire				٠			204	00
Engine-hire						•	122	50
Fuel and oil							120	
Miscellaneous supplies	•					•	99	35
							\$8,868	72
Sino	and	Ton	gth o	f Som	1000			
D126	ana	Lien	gen o	, Dea	<i>ie1</i> .			
1,081.80 feet 2 ft. 6	in, >	< 3 f	t. 9 ir	ı., br	ick.			
77 43	WT 1		0	a	0 /7	,		
Faneuil	Val	lley	Over	How	Outle	et.		
Labor						•	\$2,752	67
Bricks, 21,750 .	•		•	•			239	25
Cement, 65 bbls					•	•	81	25
Sand, 12 double loads		•	•	•	•		23	
Teaming	•	•	•	•	•	•	. 121	
Lumber, 1,250 feet	•	•	•	•	•	•		50
Centres, profiles, etc.	•	•	•	•	٠	•	83	
Tide-gates, 2.	•	•	•	•	•	•	161	
Miscellaneous supplies	•	•	•	•	•	•	72	50
							\$3,558	18
	,						ψυ,υυσ	10
Size	e`and	Len	gth of	Sew	er.			
		,						
114.46 feet 3 ft. 9 in.				ζ.				
13.00 feet 5 ft. 6 in.,								
125.00 feet 5 ft. × 5	11.,	WOOO	1.					
1 tide-gate M. H.								
Fairba	anks	Str	eet,	Brigi	hton.			
Labor				•			\$5,807	78
Bricks, 143,500 .							1,578	
Cement, 350 bbls		•					437	50
Sand, 83 double loads		• '					161	85
M. H. frames and cover	rs, 4	•				•	27	53
Teaming			•			•	248	
Lumber, 3,733 feet	•	•	•	•		•	57	
Pipe Trench-machine hire	٠	•		•	•	•	173	
Trench-machine hire	•	•	•	•	•	•	140	
Engine-hire	•		•	•	•	•	87	
Centres, profiles, etc.	•	•	•	•	•	•	42	
Fuel and oil	•	·		•	•	•	39	
Hardware, tools, and bl	acksi	ment	ug	•	•	•	178	11

\$8,980 02

Size and Length of Sewer.

12.60 feet 48 in., iron pipe. 710.49 feet 3 ft. 9 in. \times 3 ft. $11\frac{5}{8}$ in., brick. 42.07 feet 4 ft., circular brick. 432.24 feet 4 ft. 9 in. \times 5 ft. $0\frac{1}{4}$ in., brick. Overflow and tide-gates.

Mt. Vernon Street, Pleasant Street to Garfield Avenue.

James I	olan						\$1,955	28
Labor							206	50
Cement,	861	bbls					98	32
M. H. f	rame	s and	d cov	ers, 5			39	87
Teaming	2						67	50
Pipe							556	96
Coal							7	28
Water							144	96

\$3,076 67

Size and Length of Sewer.

1,189.65 feet 12 in., pipe.

Parkway, between Pond and Centre Streets.

Labor							\$2,583	33
Bricks, 23,900 .							260	90
Cement, 77 bbls							96	25
Sand, $15\frac{1}{2}$ double loads	0				•		29	88
M. H. frames and cove	rs,	17)					153	26
M. H. steps, 72		<i>S</i>	•	•	•	•	100	20
Teaming	٠						152	75
Lumber, 3,622 feet							61	57
Pipe							904	59
Fuel and oil							3	30
Blacksmithing .								80
Water							281	
Miscellaneous supplies							22	93

\$4,577 62

Size and Length of Sewer.

2,811.62 feet 12 in., pipe.

Stratford Avenue.

Labor				\$2,233	37
Bricks, 47,750 .				573	00
Cement, 148½ bbls.				181	23
Sand, 21 double loads	٠			36	75
Gravel, 26 double loads					50

Carried forward,

\$3,069 85

Brought forward,						\$3,069 85
M. H. frames and covers,	2					17 92
Teaming by contractors	taut 4	•		•	•	45 00
Teaming by contractors. Lumber, 7,246 feet.	•	•	•	•	•	119 32
	•	•	•		•	
Pipe	•	•	•	•	•	41 47
Fuel	•	•	. •	•	•	3 00
Profiles, centres, etc	•	•	•	•	•	71 40
Water	٠.		•	•	•	29 81
Blacksmithing, etc.					•	72 14
N. Y., N. H., & H. R.R.	Co.	•		•	•	101 48
						\$3,571 39
0.1		. 7	_			
Size an	d Len	gth of	Sew	er.		
298.14 feet 2 ft. \times 3 in.	, brick	.				
_						
P	rince	Stree	et.			
M. Kiernan, contractor .						\$2,184 35
Labor	•		•	•	•	28 00
Labor Cement, 45 bbls	•	•	•	•	•	50 80
Cement, 45 bbls M. H. frames and covers, 8		•	•	•	•	63 49
Teaming	.,	•	•	•	•	5 50
70	•	•	•	•	*.	566 28
Pipe	•	•	•	•	•	1 56
Coal	•	•	•	•	•	
water	D:		•	•	•	157 42
Resurfacing street by Pavin	ng Div	rision	•	•	•	745 60
						ф <u>я</u> 902 00
						\$3,803 00
Size an	d Tan	ath of	Sam	000		
	a Lien	gen Oj	Sew	5/ •		
675 feet 15 in., pipe.						
900 feet 12 in., pipe.						
Maple Str	ant S	Wood	Dow	haar		
	eet,	ii est	HUX	bury	•	
James Dolan, contractor			۰			\$7,108 30
Labor						462 00
Labor Cement, 48 bbls						60 00
M. H. frames and covers,	6.					41 37
Teaming						1 50
Pipe						954 70
Water						110 00
Fuel						2 12
	•					

Size and Length of Sewer.

\$8,739 99

1,100 feet of 12-in. pipe. . 680 feet of 15-in. pipe.

Sturbridge Street.

D. F. O'Connell & Co., cont	rooto	W.Ct				\$9 997	75
D. F. O Connen & Co., cont	acto	rs	•	•	•	\$4,441	(.)
Labor							
Cement, 40 bbls	. ,	0				. 47	20
M. H. frames and covers, 4	٠,					32	80
Pipe						415	24
Citizens' Relief Association						122	70
Water		•				81	27
						\$3,175	46

Size and Length of Sewer.

767.72 feet of 15-in. pipe.

Centre Street, between Lakeville Place and Robinwood Avenue

			AVO	щи с.					
Labor						•		\$3,580	19
Bricks, 1,500				•				16	50
Cement, 12 bbls.								14	41
M. H. frames and	d co	vers,	2)					1.5	00
M. H. steps, 8		Í	1	•	•	•	. *	15	98
Powder)									
Fuse .					•			194	65
Caps)									
Teaming .	٠,							499	50
Lumber, 6,619 fee								107	84
Pipe								172	10
Blacksmithing and								244	95
Fuel and oil .								14	46
Water								39	03
Miscellaneous sup	plie	s .						100	06
•	_								
									~-

\$4,999 67 Size and Length of Sewer.

310.35 feet of 15-in. pipe.

Shirley Street.

Labor						\$4,310	09
Bricks, 100,200			•	•	•	1,002	
Cement, 335 bbls.							
				•			
Sand, 80 double los							
Gravel, 145 double					•	239	25
M. H. frames and			٠.			30	72
M. H. steps, 17							1 20
Teaming .						536	00
Lumber, 10,245 fee	et .					. 164	50
Pipe							85
-							

Carried forward, \$6,990 94

Brought forward,							\$6,990	94
Fuel							22	34
Diacksmithing .							33	58
Water							123	62
Miscellaneous supplies			•				33	10
							## 000	
							\$7,203	98
Size	e and	l Len	gth c	f Seu	er.			
164.54 feet 2 ft. 6 in. 25.05 feet 12 in., pipe.		ft., k	orick.					
, , , , , , , , , , , , , , , , , , ,		lerica	a Str	eet.				
Labor							\$4,060	11
Bricks, 93,375 .							924	
Cement, 339 bbls				, i	·		409 8	
Sand, 81 5-6 double los	ads						163	
Gravel, 65 double loads							116	60
Screenings, 71 double l							124 2	25
Teaming by contractor	rs)						830 (10
Teaming by departmen	nt∫	•	•	•	•	•		
Lumber, 20,909 feet		•					290 6	
Pipe	٠		•	•	•	٠	210 8	
Profiles, centres, etc.	•	•	•	•	•	•	66 3	
Water	•	•	•	•	•	•	63 2	
Miscellaneous supplies Resurfacing street.	٠	•	•	•	•	•	$\begin{array}{c} 32 & 8 \\ 260 & 2 \end{array}$	
nesurracing street.	•	•	•	•	•	•		_
							\$7,553 4	4
Size	and	Len	gth o	f Sew	er.			
632.15 feet 2 ft. 6 in. ×				,				
,	, , ,	, ,						
Commo	nwe	alth	Avei	aue, l	No.	3.		
Labor	٠	•	•	•	٠	٠	\$14,070 8	
Bricks, 385,650 . Cement, 916 bbls	•	•	•	•	•	•	4,242 1 $1,134 5$	
Sand, 11 double loads		•	•	•	•	•	21 4	
M. H. frames and cov	vers.	13)	•	•	•	•		
M. H. steps, 100	, 010,	}	•	•	•	•	148 9	6
Powder, 40 lbs.		,						
Fuse }							17 6	0
Caps								
Teaming							601 0	0
Lumber, 41,964 feet							656 8	
Pipe .							1,150 6	
Coal, $60\frac{3}{4}$ tons .							311 6	
Blacksmithing .							108 23	
Profiles, centres, etc.	•		٠	•	٠	•	89 66	ő
Carried forward,							\$22,553 58	3

309

Brought forward,							\$22,553	53
Engine-hire							336	
Trench machine-hire	•	٠	*	•	•	* * * * * * * * * * * * * * * * * * * *	600	
Water	•		٠	•	•	•1	290	
Miscellaneous supplies			•	•	•	•	317	
Engine and burning oils	•	•	•	•	٠	•	81	
Engine and burning ons	•	•	•	•	•	•	01	
							\$24,178	90
							Ψ2±,110	
Size	and	Leng	th of	Sewe	r.			
600.60 feet 3 ft. 6 in. ×	3 ft	. 9 in.	. brie	k.				
1,483.70 feet 2 ft. 4 in.								
104.98 feet 24 in., pipe.			, ,					
656.10 feet 18 in., pipe.								
policies according to the property								
Common	wea.	lth . A	venn	io N	Jo 7			
		LUIL Z	LVCHU	109 1	10	•	Ø100	00
Labor Cement, 57 bbls	•	•	•	•	•	•	\$189	
Screenings, 19 double lo	•	•	۰	•	0	•	69	
M II frames and some	aus	•	0		•	•	33	
M. H. frames and cover	8, 4	•	•	•	•	۰	56	
Lumber, 10,059 feet Pipe	•	*	•	•	•		164 529	
Pipe Metropolitan Construction	on Co		· two of	0	•	۰	1,988	
	оп Со	., coi	nraeu		-*	•	1,900	
Water Miscellaneous supplies	•	•	•		•	•	8	
Miscenaneous supplies	•	•	•	•	•	•	0	UU
							\$3,185	90
							φυ,10υ	40
Size	and	Lengt	h of S	Sewer	•			
1,464.86 feet 12 in., pip								
2,102100 1000 12 121, pip								
Common	waal	lth A	vonn	0 N	0 4			
	i w Gai	IUII A	LVCIII	, 1	U. T	•	#9 000	40
Labor Bricks, 21,700		٠	•	•	•	•	\$3,899	
	•	•	•	•	•	•	217	
		•	•	•	۰	٠	93	
Sand, 24 double loads M. H. frames and covers		•		۰	•	*	48 · 96	
		•	•	•	•	٠	553	
Teaming Lumber, 2,691 feet	•		•	•		•	44	
Pine	•	•	•	•	•	•	938	
Pipe	•	•	•	•	•	•	10	
Wood 17 cords	•	*	•	•	•	•	144	
Coal, 2 tons Wood, 17 cords . Oil	•	•	•	•	•	٠	144	
Tools and blacksmithing	•	•	•	•	•	•	144	
Manure, 1 cord .		•	•	•	•	•	6	
Water	•	•	•	•	٠	•	274	
rate	•	•	•	•		•	2(4)	10
							\$6,480	01
							90,400	01

Size and Length of Sewer.

99 feet 15 in., pipe. 1,547.80 feet 12 in., pipe.

Western Avenue and Duck Lane.

Labor					\$2,136	48
Bricks, 97,000 .					1,042	
Cement, 214 bbls					267	50
Sand, 90 double loads					180	00
Gravel, 35 double loads	8 .				61	25
M. H. frames and cove	rs,	3.			. 19	95
Teaming		•		٠,	334	50
Lumber, 1,094 feet					16	83
Pipe					78	13
Profiles, centres, etc.					52	42
Blacksmithing .					. 14	45
Water					61	09
Miscellaneous supplies					5	52
					\$4,270	12

Size and Length of Sewer.

610.90 feet 2 ft. 6 in. \times 3 ft., brick.

Parsons, No. Beacon, and Faneuil Streets.

· · · · · · · · · · · · · · · · · · ·								
Labor		• -			• .		\$5,637	36
Bricks, 235,375 .							2,589	13
Cement, 521 bbls							633	85
Sand, 51 double loads							99	45
M. H. frames and cover			·			Ť		-
M. H. steps, 100		1						
I. S. G. M. H. F. and (7 9	}					299	4.0
2 tide-gates	J. 2	1	•	.*	•	•	200	40
)					9	10
1 keg powder and fuse		•				۹.		
Teaming							473	75
Lumber, 25,415 feet							414	92
Pipe							178	60
Trench-machine hire							525	49
Engine-hire							228	02
Blacksmithing .			·					65
Engine and burning oil				•		۰	9	67
Profiles, centres, etc.							223	23
Miscellaneous supplies							290	88
Coal, $32\frac{1}{3}$ tons .							167	15
Wood					۰		49	00
Water							117.	88
•								

\$12,014 53

Size and Length of Sewer.

14.16 feet 24 in., pipe. 766.90 feet 3 ft. 9 in. \times 3 ft. 11 $\frac{5}{8}$ in., brick. 12.00 feet 48 in., iron pipe. 102.05 feet 4 ft. 3 in. \times 4 ft. 6 in., brick.

Washii	ngtor	ı Str	eet.	Brig	hton.		
							\$10,320 15
Labor	•	•	•	•	•	•	2,870 75
Cement, 788 bbls							997 35
Sand, 201 double loads				·			391 95
Gravel and screenings,	261	double	e load	ls	·		456 75
M. H. frames and cover	rs. 17	7)	20000	• • •			
M. H. steps, 45		-		•	•	•	146 86
Powder, 80 lbs.		,	•	•	•	٠	22 00
Teaming							1,265 25
Lumber, 15,723 feet							244 96
Pipe							1,014 94
Pipe Hire of engine .							362 50
Hire of trench-machine							508 46
Coal, 25 tons .							118 17
Coal, 25 tons . Profiles, centres, etc.							306 14
Engine and burning oil Miscellaneous supplies							26 14
Miscellaneous supplies							74 70
Blacksmithing and hard	ware						515 53
Tide-gates							172 09
Water							295 42
							\$20,110 11
Sicu	and	Leng	th of	Samo	20		
715.37 feet 3 ft. 9 in. \times 362.23 feet 18 in., pipe. 902.20 feet 15 in., pipe. 267.14 feet 12 in., pipe. 682.66 feet 2 ft. \times 3 ft Overflow chamber and t	., bri	ek.	in., l	oriek.			
Wexf	ord	Stree	et, B	righ	ton.		
							\$141 50
Labor Cement, 41 bbls							47 76
M. H. frames and cover	s, 5						40 46
Pipe							550 08
Pipe	on Co	ompai	ay, co	ontrac	etors		2,399 06
Coal					•		2 60
							\$3,181 46
9:		T	17 £	0			
491 feet 15 in., pipe. 755.38 feet 12 in., pipe.		Leng	in oj	Sewer	r.		
	Sant	ford	Stree	et.			
D. F. O'Connell & Co.,	cont	racto	'S				\$4,244 90
Labor							431 12
Cement, 63 bbls				:			75 30
Carried forward,							\$4,751 32

Brought forward,							\$4,751	32
M. H. frames and cove	ers. 6						47	
Teaming							22	
Pipe							554	
Pipe Coal	•	•					8	
Water							220	47
							\$5,605	41
a:		T .	17 C	α.				_
		Len	gth of	Sew	er.			
93.65 feet 18 in., pip	e.			-				
663.90 feet 12 in., pi	ipe.							
	77.11		614	. 4				
т. 1	ren	OWS	Stre	et.			A A B O	0.4
Labor	•	٠		•	•	*	\$7,478	
Bricks, 10,000 .	•	٠	•	•	•	•	100	
Cement, 53 bbls.	•	•	•	•	•	•	66	
Sand, 10 double loads			•	٠	•	٠	18	20
M. H. steps, 68	ers, a) }					71	00
Tite are beeple, oo)					940	77.5
Teaming Lumber, 83,253 feet	•	۰	•	•	•	•	1,264	
	•	٠	•	•	•	٠	,	
Pipe	* ~	•	•	•	•	•	700 144	
Blacksmithing and tool	8.	•	•	•	•	•	20	
Oil Coal, $27\frac{1}{2}$ tons .		•	•	•	•	•	122	
WWW.	٠	•	•	•	•	•	105	
Water Miscellaneous supplies	•	•	•	•	•	•	100	
Miscentaneous supplies	•	•	•	•	•	•	10	
							\$11,044	06
O.	,	m.	.7 0	~				
		Ler	igth of	Sew	er.			
519.18 feet 15 in., p								
535.71 feet 12 in., p	ipe.							
	Morro	000	ıd Str					
T-b	TOWI	прет	10 St1	eet.			1 00 000	90.
Labor Bricks, 3,000	•	•	•	•	•	•	\$2,009	
Compart 12 hblg	•	٠	•	•	•	•		$\frac{50}{27}$
Cement, 13 bbls Sand, 5 double loads	•	٠	•	•	•	•		90
Gravel, $19\frac{1}{2}$ double loa	de.	•	•	•	•	•		71
M. H. frames and co	us zore s)	•	•	•	•	9.1	11
M. H. steps, 14	V C15, 2	{					23	79
300 lbs. powder, and f	1190	,					95	85
Teaming	usc	•	•	•	•	•	321	
Lumber, 1,372 feet	•	•	•	•	•	•		95
Pipe								35
Hardware and blacksm	ithing						358	
Water								63
Coal and oil								08.
Miscellaneous supplies							103	~ -
PP								
							3,135	02

Size and Length of Sewer.

158.81 feet 12 in., pipe.

Ivy Street.

Quimby & Ferguson, o	ontra	ctors					\$1,892	03
Labor							151	
Cement, 71 bbls							88	75
M. H. frames and cove	ers, 6)						
M. H. steps, 56		-					182	83
C. B. frames and grate		·	•	•	•	•	102	(),)
C. B. traps and hooks,)						
Teaming		•			•		22	
Pipe			•				614	
Granite and flagging							66	50
Advertising							35	96
Water	•	•	•				89	88

							\$3,144	12

Size and Length of Sewer.

22.43 feet 18 in., pipe. 62.59 feet 15 in., pipe. 933.80 feet 12 in., pipe. 127 feet 10 in., pipe, C. B. drain. 1,379 feet 6 in., pipe, house drain. 7 catch-basins.

Newbury Street.

Metropoli	tan Co	nstruc	etion	Cómp	anv		\$5,987	13
				-	a		345	85
Bricks, 15	67,600						1,650	50
Cement,	352 1 b	bls.					434	37
M. H. fra	mes ar	d cov	ers, 5)			
D catch-b	asin fi	ames	and g	grates	, 6 }		101	69
M. H. ste	ps, 61.)			
Teaming							1	50
Flagging							24	()()
Pipe .							602	47
Water .							120	12
							\$9,267	63

Size and Length of Sewer.

924.10 feet 2 ft. 6 in. \times 3 ft., brick. 280.40 feet 12 in., pipe. 370.30 feet 12 in., pipe, C. B. drain. 70.87 feet 10 in., pipe, C. B. drain. 1,809 feet 6 in., pipe, house drain. 3 catch-basins and 3 drop inlets.

Parker Street.

77 .1 10	~						A12 200	0.3
National Construction	Com	pany,	conti	actors	3 1	•	\$12,206	
Labor							867	90
Bricks, 193,300 .							1,888	15
Cement, 796 bbls							991	25
M. H. frames and cov	ers,	14)					
M. H. steps, 100								
D catch-basin frames	and s	grates.	6				0 = 4	90
C. B. covers, 15	·	, ,		•	•	•	354	90
C. B. traps and hooks	s, 15		ì					
Tide-gates, 2			· j					
Teaming							96	00
Pipe							1,471	27
Flagstones, 3)					010	F ()
C. B. heads and gutt	ers,	15	•	•	٠	•	312	90
Advertising							59	50
Water							268	39
							\$18,516	18

Size and Length of Sewer.

1,105.40 feet 2 ft. 6 in. \times 3 ft., brick.

163 feet 18 in., pipe.

7 feet 20 in., pipe.

1,189.41 feet 12 in., pipe.

385.93 feet 12 in., pipe, C. B. drain. 346.82 feet 10 in., pipe, C. B. drain.

1,794 feet 6 in., pipe, house drain.

18 catch-basins and 3 drop inlets.

Dorchester Lower Mills Trunk Sewer.

Doronoster	TOU	UI	TITIE	TIUUK	Schol	•	
Labor						\$10,408	32
Bricks, 200,450 .						2,204	95
Cement, 3931 bbls.						480	67
Sand, 110 double loads						198	00
Gravel, 28 double loads						46	20
Frames and covers, 5)						F 0	20
Iron steps, 38		•	•	•		99	39
Explosives						892	42
Teaming						197	50
Lumber, 16,110 feet						258	20
Pipe						102	33
Blacksmithing and hardy						344	29
Fuel and oil						271	96
Rent of steam-drill.						648	00
Miscellaneous supplies						221	77
							_

\$16,328 00

Size and Length of Sewer.

599.74 feet 2 ft. 6 in. \times 3 ft., brick. 547.17 feet 2 ft. \times 3 ft., brick.

APPENDIX E.

REPORT OF DEPUTY SUPERINTENDENT OF STREET-CLEANING DIVISION.

14 Beacon St., Boston, February 1, 1895.

MR. B. T. Wheeler, Superintendent of Streets:

DEAR SIR: I respectfully submit my annual report of the expenditures and income of the Street-Cleaning Division of the Street Department for the financial year ending January 31, 1895:

FINANCIAL STATEMENT.

Amount of appro Revenue from Bro count of work d Transfers from Pa Transfer from Wa	ooklin one k wing	e Ga y thi Divis	s Ligh s Divi sion .	nt Co ision	mpan •	y on :	ac- •	\$273,000 237 21,240 8,000	00 44
Transferred to Co	unty	of Su	ıffolk	٠	•			\$302,477 1,000	
Total amount	of ap	prop	riatio	n			٠	\$301,477	44
Total amount	of ex	kpend	litures		٠	٠	٠	\$301,477	44
	Овј	ECTS	OF E	XPEN]	DITUR	ES.			
,		Sup	erinte	nden	ce.				
Salary of Deputy	Super	inten	dent					\$3,000	00
Office pay-rolls								4,580	60
Stationery .								198	
Printing .			٠					. 378	
Board of horses				٠					
Telephone service	•	•	•	٠	•	•	٠	142	56
Total cost of	super	inten	dence					\$8,900	36

CLEANING STREETS

CLEANIN	G STRE	EIS.				
Including the Cost of Sweeping.	Load	ing ar	nd Re	mov	al of Street	-
District 1. West End					\$17,388 13	3
	•	•	•	•	20,000 92	
District 3. South End	•	•	•	•	20,000 52 $21,352 50$	
District 4. South End		. •	•	•	17,010 64	
District 4. South End District 5. Back Bay	•		•	•	14,027 81	
District 6. South Boston .			•	•	11,868 20	
District 7. Roxbury	•	•	•	•	14,868 93	
District 9. Charlestown and E	ogt Pos	oton	•	•	11,634 18	
			•	•		_
Total cost of cleaning stree	ets .	٠	•		\$128,151 28	8
CLEANIN						
Including Cost of Sweeping, Lo	ading	and I	Remov	al oj	f Street-dirt	
District 1. West End					\$2,068 38	8
District 2. North End District 3. South End District 3.	ict enti	rely p	aved.			
District 4. South End					1,577 94	4
					3,613 49	
District 5. Back Bay District 6. South Boston .					5,272 19	
District 7. Roxbury					4,362 01	1
District 9. Charlestown and E	Cast Bos	ston			3,871 86	
Total cost of cleaning gutte	ers .				\$20,765 87	- 7
Total length of gutters cleane						
Average cost per mile, \$9.75.						
G						
CLEANING	G Cross	SINGS.			۰	
Including Cost of Mar				Lai	bor.	
Including Cost of Max	nual ar	nd Me	achine			5
Including Cost of Max. Cost of eleaning crossings .	nual ar	nd M e	achine			5 8
Including Cost of Max	nual ar	nd Me	achine		bor. \$618 93 2,877 88	5 8 -
Including Cost of Max. Cost of eleaning crossings .	nual ar	nd M e	achine			-
Including Cost of Mar. Cost of cleaning crossings Removing snow by patrol .	nual ar	nd M e	achine •		\$618 98 2,877 88	-
Including Cost of Man Cost of cleaning crossings Removing snow by patrol . Total cost	nual ar	nd M e	achine •		\$618 95 2,877 88 \$3,496 85	3
Including Cost of Man Cost of cleaning crossings Removing snow by patrol Total cost Cost of Man District 1. West End .	nual an	nd M e	achine •		\$618 98 2,877 88	- 3 - 4
Including Cost of Man Cost of cleaning crossings Removing snow by patrol Total cost Cost of Man District 1. West End District 2. North End	nual ar	nd M e	achine •		\$618 95 2,877 88 \$3,496 85 \$527 94	- 3 - 4 2
Including Cost of Man Cost of cleaning crossings Removing snow by patrol Total cost Cost of Man District 1. West End District 2. North End	nual an	nd M e	achine •		\$618 95 2,877 88 \$3,496 85 \$527 94 524 25	- 3 - 4 2 8
Including Cost of Man Cost of cleaning crossings Removing snow by patrol Total cost Cost of Man District 1. West End District 2. North End District 3. South End	nual ar	nd M e	achine •		\$618 95 2,877 88 \$3,496 85 \$527 94 524 25 513 18	4 2 8 2
Including Cost of Man Cost of cleaning crossings Removing snow by patrol Total cost Cost of Man District 1. West End District 2. North End District 3. South End District 4. South End	nual ar	d Mo	achine •		\$618 95 2,877 88 \$3,496 85 \$527 94 524 25 513 18 521 05	-3 -4 2 8 2 0
Including Cost of Man Cost of cleaning crossings Removing snow by patrol Total cost Cost of Man District 1. West End District 2. North End District 3. South End District 4. South End District 5. Back Bay .	nual ar	d Mo	achine •		\$618 95 2,877 88 \$3,496 85 \$527 94 524 25 513 18 521 05 470 40	-3 -4 2 8 2 0
Including Cost of Man Cost of cleaning crossings Removing snow by patrol Total cost Cost of Man District 1. West End District 2. North End District 3. South End District 4. South End District 5. Back Bay District 6. South Boston	nual ar	of Du	achine		\$618 95 2,877 88 \$3,496 85 \$527 94 524 25 513 18 521 05 470 40	-3 -4 2 8 2 0 0
Including Cost of Man Cost of cleaning crossings Removing snow by patrol Total cost Cost of Man District 1. West End District 2. North End District 3. South End District 4. South End District 5. Back Bay District 6. South Boston District 7. Roxbury	nual an	of Du	achine		\$618 95 2,877 88 \$3,496 85 \$527 94 524 25 513 18 521 05 470 40 433 00	4 2 8 2 0 0 - 0 -

STREET DEPARTMENT. — STREET-CLEANING DIVISION, 317

Snow.

Including Labor or	Crossings, i	n Streets,	Carting o	f Snow,	etc.
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U						·	v		
District 1.	West End	•						\$2,683	98
District 2.	North End							2,990	69
District 3.	South End		• .					3,780	73
District 4.	South End						9	2,776	69
District 5.	Back Bay		•					2,965	49
District 6.	South Bost	on						3,153	55
District 7.	Roxbury							4,381	44
District 9.	Charlestow	n and	d East	Boste	on			2,780	58
Total c	ost .		•		•			\$25,513	15

MISCELLANEOUS WORK.

This shows the cost of such work as may not be characterized the same in all districts.

Including miscellaneous work, sweeping and carting of leaves, etc.:

District 1.	West End						\$635	97
District 2.	North End					- 1	1,115	10
District 3.	South End						476	99
District 4.	South End						707	29
District 5.	Back Bay				,		1,641	65
District 6.	South Bosto	n					1,724	76
	Roxbury						1,429	94
District 9.	Charlestown	and	East	Bosto	011		640	83
Total ed	ost .						\$8,372	58

PATROLLING BY DISTRICTS.

This includes the cost of picking up and removal of refuse papers, etc., from the streets.

Cost of paper patrol.	•	٠	•	•	٠	\$3,435 92
-----------------------	---	---	---	---	---	------------

PUSH-CART PATROL SYSTEM.

Superintende	ence .	0				0	φ1,190	UZ	
Board of hors	ses .						293	49	
Push-carts, i	neluding	labor	and	teaming			22,747	94	
							\$24,237	95	

Recapitulation of Expenses, exclusive of Superintendence, Stable and Yard Expenses, Stock and Miscellaneous Accounts.

Total.	\$23,304 40 24,630 93 26,630 93 22,593 40 22,718 84 22,451 70 22,042 32 19,880 47 6,880 47 3,435 95 24,237 95	\$214,538 46
Cost of patrol system.	\$24,237 95	\$24,237 95
Patrolling in business districts,	#3,435 92	\$3,435 92 \$24,237 95
Мізсеіївпеоив work.	\$635 97 1,115 10 476 99 707 29 1,641 65 1,724 76 1,429 94 640 88	\$8,372 58
Cost of snow.	\$2,683 2,780 2,776 2,776 69 2,776 69 4,381 4,381 4,381 4,381 4,381 4,381 4,381 4,381 4,381 4,381 4,381 4,381 4,381 4,381 4,481	\$25,513 15
Cost of dumps.	\$527 94 524 22 513 18 521 02 470 40 453 00	\$3,442 76 \$25,513 15
 Cost of cleaning crossings.	#90 90 90 90 90	\$618 95
Cost of cleaning gatters.	\$2,068 38 1,577 94 3,613 49 5,272 19 4,362 01 3,871 86	\$20,765 87
 Cost of cleaning streets.	\$17,388 13 \$2,000 92 \$20,000 92 \$21,352 50 \$14,027 81 \$14,027 81 \$11,868 20 \$5,11,868 93 \$4,15 \$11,634 15 \$3,000 in Business Districts 1 System	\$128,151 28
Districts.	1. \$17,388 20,000 3. 21,352 21,352 21,352 4. 17,010 6. 14,027 11,868 7 11,868 7 11,868 Cost of Sweeping Crossings Cost of Patrolling in Busin Push-cart Patrol System	Total

STABLE AND YARD EXPENSES.

Including the Cost of the South End, West End, Roxbury, South Boston, and Charlestown Stables, as follows:

25000000	** ~ 00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.0 0.0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•	
Superintendence of stables .					\$2,691	78
Labor, including the cost of feeder	s. ho	stlers	. broo	m-	*-,001	• •
makers, blacksmiths, carpenters	wat	tchme	n. vai	·d-		
men etc	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		11, 5 4.	. (1	19,122	83
men, etc			•	•	4,568	
Harness repairs	•		•	•	795	
Horse shooing	•	•	•	•	3,276	
Horse-shoeing	•	•	•	•	605	
Painting Sweeping-machine repairs .	•	•	•	•	2,904	
Stable and shed repairs	•	•	•	•		
Street-car tickets and ferry passes		•	•	•	1,001	
Street-car tickets and terry passes		•	•	•	1,285	
Tool repairs	•	•	•	•	172	
Veterinary services and medicine	•	•	•	•	1,753	30
Total					\$38,177	91
						_
STOCK A	CCOTT	NT				
Broom stock purchased					\$6,044	33
Carts and carriages purchased Harnesses and horse furnishings p					1,755	00
Harnesses and horse furnishings p	ourch	ased			1,730	79
Horses purchased. (Net) .					6,450	00
Sweeping-machines purchased					3,240	00
Tools purchased					706	
Tools purchased Waste barrels purchased			•		100	00
Patrol stock and maintenance of s	same				1,127	
	Julio	·	Ť	·	1,121	
m . 1					****	
Total				•	\$21,153	36
MISCELLA	NEOU	US.				
Fort Hill wharf repairs					\$875	16
New shed in Roxbury, completing	6	•	•	•	241	
New shed in Roxbury, completing	01	•	•	•		
Holidays				٠	10,981	40
Scow (cost of disposal at sea o	1 30.				0.505	20
street-dirt)	•	•		•	6,765	
Sundries					2,602	03
Total					\$21,465	19
					,	

GENERAL RECAPITULATION OF EXPENSES.

Superintendence .			0		\$8,900 36
Cleaning streets .					128,151 28
Cleaning gutters .		•			20,765 87
Cleaning crossings.					3,496 83
Maintaining dumps					3,442 76
Removal of snow and	ice				25,513 15
Miscellaneous work					8,372 58
Paper patrol in busines	s di	istricts			3,435 92
Patrol system, push-ca	rts				24,237 95
Stable and yard expens	ses		v		38,177 91
Stock account .					21,153 36
Miscellaneous .					21,465 19
Total	•		•		\$307,113 16

Note.—Of the above amount, the sum of \$5,635.72 was paid by other departments and divisions, on account of work done, etc., making the net expenses of this division, as shown in financial statement, \$301,477.44.

Table showing the Cost per Mile of Cleaning the Streets in each District, exclusive of Supervision and other Expenses.

DISTRICTS.	Miles of Streets Cleaned.	Cost of Cleaning.	Pro Rata Cost of Dumps.	Total Cost.	Cost`per Mile.
No. 1	1,582.07 1,837.88 2,330.33 1,785.09 707.78 894.96 494.51 800.13	\$17,388 13 20,000 92 21,352 50 17,010 64 14,027 81 11,868 20 14,868 93 11,634 15	\$471 22 524 22 513 18 476 29 373 13 299 80 	\$17,859 35 20,525 14 21,865 68 17,486 93 14,400 94 12,168 00 14,868 93 11,973 95	\$11 28 11 16 9 38 9 79 20 34 13 59 30 06 14 96
	10,432.75	\$128,151 28	\$2,997 64	\$131,148 92	

Average cost per mile of cleaning streets in eight districts, exclusive of supervision, etc., \$12.57.

Table showing the Cost per Mile of cleaning Streets in each District, including Supervision, Labor, Yard and Stable Expenses.

Districts.	Miles of Streets Cleaned.	Cost of Cleaning Streets.	,	61% of th Total Co of Super	ost	69% of th Total Coa of Yard ar Stable Expenses	st nd	Total Expense.		Total C	
No. 1	1,582.07	\$17,859 20,525		\$739 849		1 11 - 1		\$22,185 25,497		77	02 87
No. 2 No. 3	1,837.88 2,330.33					- / -		,			65
No. 4	1.785.09		93								16
No. 5	707.78										27
No. 6	894.96	12,168	00	503	72	2,444	10			16	89
No. 7	494.51	14,868	93	615	53	2,986	61	18,471	07	37	35
No. 9	800.13	11,973	95	495	69	2,405	12	14,874	76	18	59
	nga garangan nan sanan										
	10,432.75	\$131,148	92	\$5,429	21	\$26,342	75	\$162,920	88		

Average cost per mile of cleaning streets in eight districts, including supervision, etc., \$15.61.

Table showing the Number of Loads of Street-dirt removed.

Districts.	Number of Loads of Dirt removed.	Cost per Load of cleaning streets and removing to dumps, including Fore- man's Superintendence.
1	16,312	\$2 04 2 01 2 18 1 74 1 40 1 78 1 17 1 41
Paper Patrol and Leaves		equal to 50,280 barrel-loads.
Total Cart-loads	95,478	

30,766 loads of the above dirt (or about 33 per cent.) were delivered at the dumping-scow, the towing of which to sea cost 22 cents per load. In addition to the above, 37,557 single loads and 1.948 double loads of street-scrapings were removed from the streets by the Paving Division.

Pu	BLIC	WAS:	re—BA	RREI	s.		
Total number of waste-	barr	els en	aptied	1.		•	17,724
		INCO	ME.				
Amount of bills depos	ited	with	the (City	Collec	tor	
during the financial y	ear e	nding	Janu	ary a	31, 18	95,	\$8,163 77
	For	CE E	MP,LOY	ED.			
Deputy Superintendent						•	1
Clerk						•	1
Messengers Employees in the Divisi							$\begin{array}{c} 2\\327\end{array}$
12mployees in the Divis.	юц, 1	101 111	ciudii	ng tu	e abo	ve,	
Entire force .							331
A versoe force employed	dur	ing th	0 1700	r 20	18		

Respectfully submitted,

PHILIP A. JACKSON,

Deputy Superintendent.

APPENDIX F.

FORMER SUPERINTENDENTS AND DOCUMENT NUMBERS OF ANNUAL REPORTS.

Bridge Department before 1891.

Previous to 1886 under charge of City Engineer.

Name.	Year.
Bartholomew M. Young James H. Nugent	1886 to 1889 1889 to 1891

	NAME OF DOCUMENT.	For Year.	Pub. Year.	No. of Doc.
Annual	Report.	1886	1887	29
4.4	46	1887	1888	26
6.6	66	1888	1889	29
4.6	46	1889	1890	22
6.6	66	1890	1891	· 3k

^{*} Published in Annual Report, Executive Department, Part I., City Document No. 1, 1891.

Paving Department before 1891.

	NA	ME.									2	Tear	r.
Enoch Patterson, Supt.													1831
Zephaniah Sampson, "	6.6	6.6	6.6		 		 	 	٠	 	1831	to	1846
Thomas Hunting, Supe	rintende	ent	 	 	 		 			 	1846	to	1853
Alfred T. Turner,	6.6		 	 						 	1853	to	1864
Charles Harris,	6.6		 	 	 					 	1864	to	1883
Nehemiah T. Merritt,	66		 	 	 		 			 			1883
James J. Flynn,	4.6		 	 	 		 	 		 			1888
Charles Harris,	6.6		 	 	 					 			1884
Michael Meehan.	6.6		 	 	 					 	1884	to	1886
John W. McDonald.	4.4		 	 							1886	to	1889
J. Edwin Jones,	6.6		 	 						 			1891

Paving Department before 1891.

		NAME OF DOCUMENT.	For Year.	Pub. Year.	No. of Doc.
Quarte	rly Ro	eport		1851	6
		66		1851	29
Annual	Repor	rt	1851	1852	2
6.6	66		1852	1853	6
6.6	6.6		1853	1854	6
6.6	6.6		1854	1855	5
6.6	6.6		1855	1856	3
6.6	6.6	• • • • • • • • • • • • • • • • • • • •	1856	1857	3
6.6	6.6		1857	1858	3
6.6	6.6		1858	1859	5
6.6	66		1859	1860	6
66	6.6	*****	1860	1861	5
6.6	6.6	• • • • • • • • • • • • • • • • • • • •	1861	1862	4
6.6	6.6	*****	1862	1863	3
6.6	6.6		1863	1864	3
6.6	6.6	***********	4004	1865	7
6.6	6.6		1865	1866	3
6.6	6.6		1000	1867	6
6.6	6.6		-005	1868	9
6.6	6.6	* * * * * * * * * * * * * * * * * * * *		1869	14
6.6	6.6		1869	1870	13
66	6.6		1870	1871	12
6.6	6.6		1871	1872	16
66	6.6		1872	1873	21
6.6	6.6		1873	1874	25
6.6	6.6		1874	1875	27
66	6.6	• • • • • • • • • • • • • • • • • • • •	1875	1876	30
66	66		1876	1877	38
66	6.6	* * * * * * * * * * * * * * * * * * * *	1055	1878	29
66	6.6	* * * * * * * * * * * * * * * * * * * *		1879	24
66	66	********************	1878		24
66	2.5			1880	48
	66	• • • • • • • • • • • • • • • • • • • •	1880	1881	
66	66	* * * * * * * * * * * * * * * * * * * *		1882	51
66	6.6	• • • • • • • • • • • • • • • • • • • •		1883	47
66	66	• • • • • • • • • • • • • • • • • • • •		1884	46
	66	* * * * * * * * * * * * * * * * * * * *	. 1884	1885	97
66	1 66			1886	30
	66	* * * * * * * * * * * * * * * * * * * *	1886	1887	16
66		• • • • • • • • • • • • • • • • • • • •	. 1887	1888	28
4.6	6.6	* * * * * * * * * * * * * * * * * * * *	. 1888	1889	30
6.6	6.6		. 1889	1890	19
6.6	4.6	* * * * * * * * * * * * * * * * * *	. 1890	1891	10

^{*} Published in Annual Report, Executive Department, Part II., City Document No. 1, 1891.

Sewer Department before 1891.

	N	TAME	•											Y	ear.	
Enoch Patterson, Supe	rintend	ent						_		_		_		1827	to	189
Zephaniah Sampson,	66	cnt.		•						•			•	1831		
Charles B. Wells,	4.6													1837		
Simeon B. Smith.	66													1856	to	186
William H. Bradley,	6.6													1863	to	188
Horace H. Moses,	6.6								 	٠				1883	to	188
Thomas J. Young,	6.6								 					1885	to	188
Seth Perkins,	6.6				 		 		 		 			1887	to	188
Charles Morton,	. 66						 		 					1889	to	189

Sewer Department before 1891.

		NAME OF DOCUMENT.	For Year.	Pub. Year.	No. of Doc.
Annual	Renot	't	. 1859	1860	11
66	66			1861	12
6.6	6.6		. 1861	1862	12
66	6.6		. 1862	1863	13
66	6.6		. 1863	1864	11
6.6	66		. 1864	1865	5
6.6	. 66		100=	1866	6
66	6.6		. 1866	1867	8
66	6.6			1868	13
6.6	6.6		1868	1869	11
6.6	6.6	* * * * * * * * * * * * * * * * * * * *	1000	1870	3
6.6	66	*************************	1870	1871	11
66	6.6		1071	1872	10
66	66	***************************************	1872	1873	13
6.6	6.6		10=0	1874	12
6.6	6.6	••••••		1875	17
6.6	6.6	* * * * * * * * * * * * * * * * * * * *	1875	1876	11
6.6	66		1070	1877	13
66	66	• • • • • • • • • • • • • • • • • • • •	. 1877	1878	15
66	6.6	* * * * * * * * * * * * * * * * * * * *	1878	1879	11
6.6	6.6	* * * * * * * * * * * * * * * * * * * *	1879	1880	16
66	66	***************************************	1880	1881	19
6.6	66	9 * * * * * * * * * * * * * * * * * * *	. 1881	1882	18
66	66		1000	1883	16
6.6	66	• • • • • • • • • • • • • • • • • • • •	1	1884)	10
66	66		. 1884	1885	43
66	66		. 1885	1886	58
66	6.6	*******************	. 1886	1887	69
66	6.6	• • • • • • • • • • • • • • • • • • • •	1887	1888	81
66	66	• • • • • • • • • • • • • • • • • • • •		1889	129
66	66		. 1888		129
66	66		1889	1890 1891	14

^{*}Published in Annual Report, Executive Department, Part II., City Document No. 1, 1891.

Health Department before 1891.

Sanitary.

	Na	ME	٠													Year.
Ezra Forristall, Super	rintenden	t				 										1853 to 18
																30M4 4- 10
Joseph W. Coburn,	6.6							٠			٠	٠	٠	٠		1854 to 18
Joseph W. Coburn, Ezra Forristall,	"															1854 to 186

Health Department before 1891.

Sanitary.

	NAME OF DOCUMENT.	Year.	Pub. Year.	No. of Doc.
Annual	Report	1853	1854	7
6.6	64	1854	1855	6
6.6	66	1855	1856	4
6.6	66	1856	1857	4
6.6	66	1857	1858	4
6.6	\ 66	1858	1859	4
6.6	46	1859	1860	5
6.6	"	1860	1861	6
4.6	66	1861	1862	5
6.6	66	1862	1863	5
66 -	66	. 1863	1864	4
6.6	"	1864	1865	4
6.6	"	. 1865	1866	8
6.6	66	. 1866	1867	7
6.6	66	. 1867	1868	8
6.6	66	1868	1869	12
4.6	"	. 1869	1870	4
66	"	. 1870	1871	10
66	"	. 1871	1872	17
6.6	66	. 1872	1873	40
Annual	report from 1873 to 1884 inclusive; the			
	rintendent's report was embodied in the			
repor	t of the Board of Health	. 1885	1886	45
	Report		1887	22
66	"	. 1887	1888	16
6.6	44	. 1888	1889	23
66	"	. 1889	1890	21
66	66	1890	1891	*

^{*} Published in Annual Report, Executive Department, Part II., City Document No. 1, 1891.

Commissioners of Cambridge Bridges before 1891.

(West Boston, Canal, and Prison Point.)

Name.	Year.		
Frederic W. Lincoln, Commissioner for Boston { Ezra Parmenter, Commissioner for Cambridge { William J. Marvin, Commissioner for Cambridge {	May 22, 1871, to March, 1891. June 14, 1871, to Jan. 31, 1883. March 28, 1883, to present time.		

Harvard Bridge added in 1892.

Commissioners of Cambridge Bridges before 1891.

(West Boston, Canal, and Prison Point.)

		NAME OF DOCUMENT.	For Year.	Pub. Year.	No. of Doc.
Annual	Repo	ort	1871	1872	19
6.6	66		1872	1873	12
6.6	6.6		1873	1874	16
6.6	6.6		1874	1875	23
66	6.6		1875	1876	20
4.6	6.6		1876	1877	12
6.6	6.6		1877	1878	10
6.6	6.6		1878	1879	8
6.6	8.8		1879	1880	12
6.6	6.6		1880	1881	8
6.6	6.6		1881	1882	15
66	6.6		1882	1883	15
4.6	6.6		1883	1884	19
66	6.6		1884	1885	8
44	6.6		1885	1886	12
4.6	4.6		1886	1887	19
44	4.6		1887	1888	25
66 "	6.6		1888	1889	22
66	4.6		1889	1890	20
6.6	6.6		1890	1891	

^{*} Published in Annual Report, Executive Department, Part I., City Document No. 1, 1891.

Street Department since 1891.

Superintendent.

Henry H. Carter, Member American Society Civil Engineers. Resigned, December 8, 1894.

Charles R. Cutter, Acting Superintendent from December 8, 1894, to January 14, 1895. Member of the Boston Society Civil Engineers.

Bertrand T. Wheeler, Superintendent from January 14, 1895, to the present time.

Member of the Boston Society Civil Engineers.

Executive Engineer.

Henry B. Wood, Member Boston Society Civil Engineers.

PAVING DIVISION .- Charles R. Cutter, Deputy Superintendent until Janu-

ary 24, 1895.

Paving Division.— Darius N. Payson, Deputy Superintendent from January 24, 1895, to the present time.

Sewer Division.— Henry W. Sanborn, Deputy Superintendent.

Member Philadelphia Society Civil Engineers.
Sanitary Division.—George W. Forristall,* Deputy Superintendent. SANITARY DIVISION.—Philip A. Jackson, Acting Deputy Superintendent since January 16, 1894.

STREET-CLEANING DIVISION. - Philip A. Jackson.

BRIDGE DIVISION .- John A. McLaughlin, Deputy Superintendent.

Boston and Cambridge Bridges. — Henry H. Carter, Ex-officio, Commissioner for Boston until December 8, 1894.

Charles R. Cutter, Acting, from December 8, 1894, to January 14,

Bertrand T. Wheeler, since January 14, 1895.

William J. Marvin, Commissioner for Cambridge.

Street Department.

	N	VAME OF DO	CUMENT.	VA allianti alla alla alla alla alla alla alla al	For Year.	Pub. Year.	No. of Doc.
Annual	Report,	Executive	Department	, Part II	1891	1892	36
Annual	Report,	Executive	Department	, Part II	1891 1892	1892 1893	36 34
	Y ,			6.6		1 2002	36 34 34

^{*} Died January 12, 1894.





